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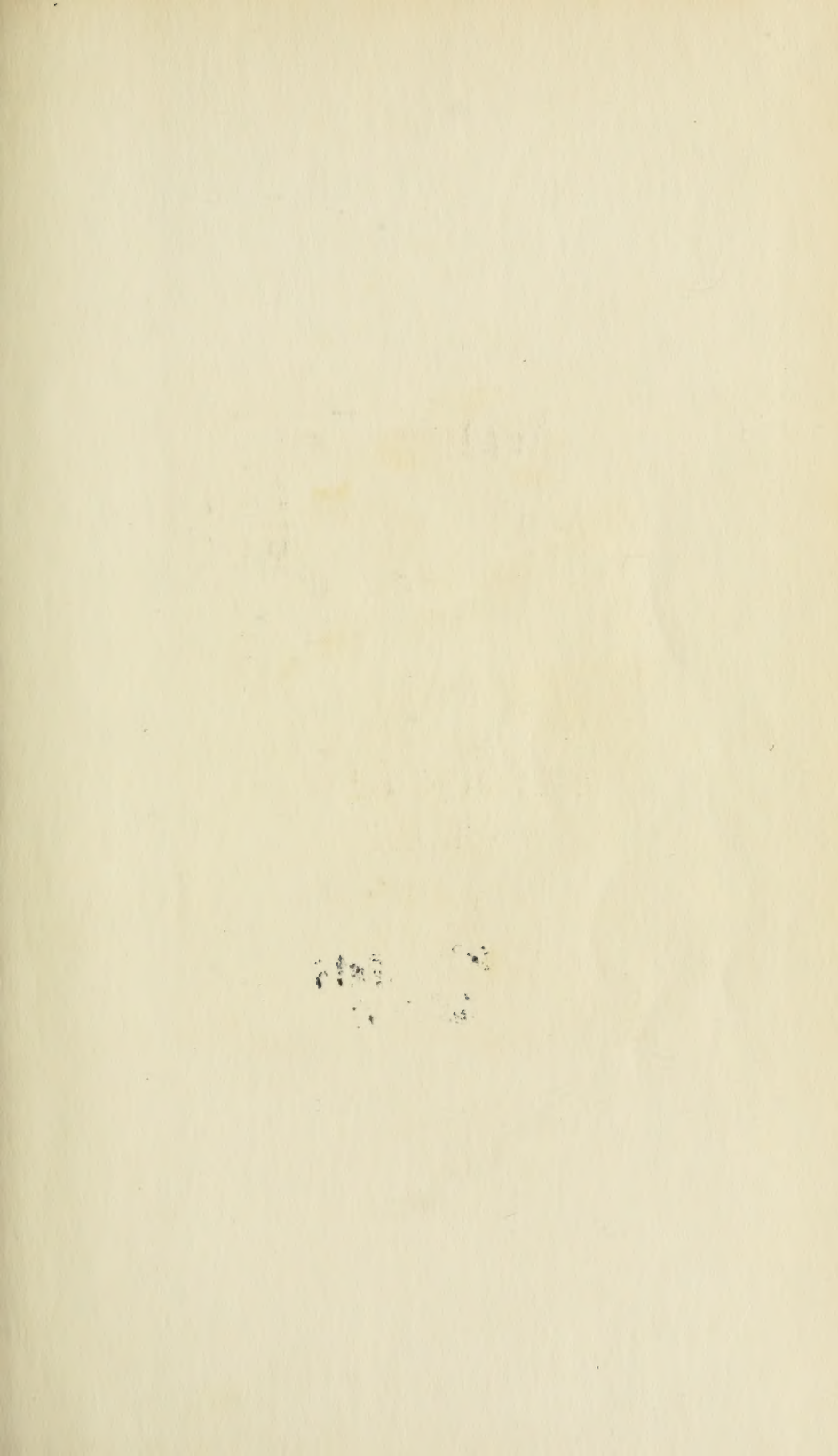
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# MONTHLY CATALOG

UNITED STATES  
GOVERNMENT PUBLICATIONS

OCTOBER 1964

Entries 16929-19042

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## SPECIAL NOTICE

Beginning with the September 1964 issue of the Monthly Catalog an explanation of the symbols used to indicate the sizes of publications will be found on the inside of the front cover. Also addresses with ZIP code numbers have been added for departments and agencies listed.

We hope this information will be of value to users of our Catalog.

CARPER W. BUCKLEY  
Superintendent of Documents

## DISTRIBUTION OF PUBLICATIONS

In ordering publications listed in this catalog, it should be noted that *only* those marked with an asterisk (\*) are obtainable from the Superintendent of Documents.

Publications marked with a farad (Φ) are sold by the Office of Technical Services, Commerce Department.

Where a single dagger (†) is the distribution symbol, application should be made directly to the department or bureau issuing the document.

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- † Distribution made by Issuing Office. Not definitely available if unaccompanied by a price
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## SIZES OF PUBLICATIONS

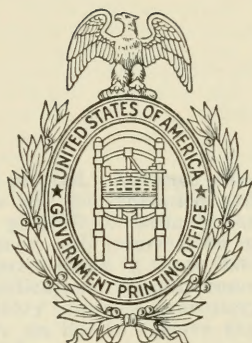
Symbols used to designate sizes of publications listed in this catalog are as follows:

|               |  |
|---------------|--|
| 4°-----       | 6-12 inches high and width more than $\frac{3}{4}$ of height                                 |
| large 4°----- | over 12 inches high and width more than $\frac{3}{4}$ of height                              |
| small 4°----- | under 6 inches high and width more than $\frac{3}{4}$ of height                              |
| 8°-----       | 8-10 inches in height (size not given in entry except where publication is narrow or oblong) |
| large 8°----- | 10-12 inches in height   |
| 12°-----      | 7-8 inches in height   |
| 16°-----      | 6-7 inches in height   |
| 24°-----      | 5-6 inches in height   |
| 32°-----      | 4-5 inches in height   |
| 48°-----      | up to 4 inches high  |
| f°-----       | above 12 inches in height  |
| narrow-----   | width less than $\frac{3}{5}$ of height  |
| oblong-----   | width more than height   |



# MONTHLY CATALOG

OF UNITED STATES  
GOVERNMENT PUBLICATIONS



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OCTOBER 1964

Number 837

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Entries 16929-19042

Issued by the SUPERINTENDENT OF DOCUMENTS

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UNITED STATES GOVERNMENT PRINTING OFFICE, WASHINGTON, D.C., 20402 : 1964



# MONTHLY CATALOG

OF UNITED STATES  
GOVERNMENT PUBLICATIONS

Number 837

OCTOBER 1964

Entries 18929-19042

L.C. Card 4-18088

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PRINTING OFFICE, WASHINGTON, D.C., 20402. PRICE 50 CENTS PER COPY  
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## PREVIEWS

The following publications are in the process of being printed. Advance sales orders may be placed for these publications. Orders will be scheduled and copies mailed as soon as stocks are received. It is not possible to estimate the lapse of time before the publications will actually appear. All information in regard to title, series, classification, distribution, and price given in these listings is preliminary and subject to change when the publications actually come from the press. Those so marked will be sent to depository libraries, providing, that at the time of going to press, the libraries were on list to receive the items under which these publications will be distributed.

- Aids for mathematics education, space-oriented mathematics for early elementary grades.** (Education Office, OE-29058, Circular 741.) 30c. ●  
FS 5.229:29058
- Basic music, Navy training course.** [Revised 1964.] (Naval Personnel Bureau, NAVPERS 15667-C.) \$1.00. ●  
D 208.11: M97/964
- Comparison of chromic oxide and conventional methods in digestion trials using steers fed pelleted rations.** (Agriculture Department, Technical bulletin 1312.) 10c. ●  
A 1.36: 1312
- Comprehensive report on enrollment in higher education, first term 1961-62 and summer session 1961.** (Education Office, OE-54032, Circular 743.) 60c. ●  
FS 5.254: 54032
- Credit manual for Federal credit unions.** [Revised June 1964.] (Federal Credit Unions Bureau, FCU-548.) 40c. ●  
FS 3.306/2: C 86/964
- Electronic business data processing, peripheral equipment occupations, suggested curricula.** (Education Office, OE-86010, Manpower development and training program.) 70c. ●  
FS 5.286:86010
- Facts about osteoporosis.** (Public Health Service, Health Information series 118.) 5c. ●  
FS 2:50: 118
- Four-bedroom farmhouse.** (Agriculture Department, Miscellaneous publication 978, Cooperative farm building plan exchange plan 7162.) 5c. ●  
A 1.38: 978
- Growing peaches east of Rocky Mountains.** (Agriculture Department, Farmers' bulletin 2205.) 15c. ●  
A 1.9:2205
- Home laundering, the equipment and the job.** (Agriculture Department, Home and garden bulletin 101.) 15c. ●  
A 1.77: 101
- How to tailor a woman's suit.** (Agriculture Department, Home and garden bulletin 20, Revised.) 20c. ●  
A 1.77: 20/3
- Identical bidding in public procurement, report of Attorney General under Executive order 10936.** (Justice Department.) \$2.25. ●  
J 1.31: 964
- Inborn heart defects.** (Public Health Service, Health information series 117.) 10c. ●  
FS 2.50:117
- International system of units, physical constants and conversion factors.** (National Aeronautical and Space Administration, SP-7012.) 20c. ●  
NAS 1.21: 7012
- Language and area centers, first 5 years.** (Education Office, OE-56016.) 55c. ●  
FS 5.256: 56016
- Link of Census establishment and IRS corporation data.** (Census Bureau, Enterprise statistics 1958, part 3.) \$2.75. ●  
C 3.230:3
- List of Bureau of Mines publications and articles, Jan. 1-Dec. 31, 1963.** (Mines Bureau.) 60c. ●  
I 28.5: 963
- Manpower in the 1960's.** (Public Health Service, Health manpower source book sec. 18.) 40c. ●  
FS 2.2: M 31/sec.18
- Market for selected photographic products in United Kingdom and France.** (Business and Defense Services Administration, Export potential study.) 15c. ●  
C 41.107: Un3k/2
- Measuring productivity of Federal government organizations.** (Budget Bureau.) \$1.25. ●  
PrEx 2.2: P 94

- Microwave spectral tables II, line strength of asymmetric rotors.** (National Bureau of Standards, Monograph 70, vol. 2.) \$3.00. ● C 13.44: 70/v.2
- Natality statistics analysis, United States, 1962.** (Public Health Service, Publication 1000, Series 21, no. 1.) 45c. ● FS 2.85/2: 21/no. 1
- Planned-unit development with homes association.** [Revised July 1964.] (Federal Housing Administration, Land planning bulletin 6.) 65c. ● HH 2.7: 6/2
- Pocket guide to France.** [Revised 1964.] (Armed Forces Information and Education.) 25c. ● D 2.8:F 84/964
- Point Reyes National Seashore, Calif.** [Revised 1964.] (National Park Service.) 10c. ● I 29.6/2: P75/964
- Proceedings of Conference on collection of statistics of severe hearing impairments and deafness in U.S., 1964.** (Public Health Service, Publication 1227.) 40c. ● FS 2.22: H 35/10
- Records and credit in profitable management.** (Small Business Administration, Administrative management course program, topic 2.) \$1.25. ● SBA 1.24: 2
- Seasonal changes in Florida avocados.** (Agriculture Department, Technical bulletin 1310.) 35c. ● A 1.36: 1310
- Space, new frontier.** (National Aeronautics and Space Administration, EP-6, Revised.) 50c. ● NAS 1.19: 6/2
- Statistics of land-grant colleges and universities, fiscal year 1962, final report.** (Education Office, OE-50002-62, Circular 734.) \$1.00. FS 5.250: 50002-62
- Study of lunar surface radio communication.** (National Bureau of Standards, Monograph 85.) 70c. ● C 13.44: 85
- Tax guide for small business.** [1965 edition.] (Internal Revenue Service.) 50c. ● T 22.19/2: Sm 1/965
- United States area handbook on Cyprus.** (Army Department, Pamphlet 550-22.) \$2.00. ● D 101.22: 550-22



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## Abbreviations

|                   |                                       |                  |                               |
|-------------------|---------------------------------------|------------------|-------------------------------|
| add-----          | addition, addendum, addenda.          | n. d-----        | no date.                      |
| amdt., amdts----- | amendment, amendments.                | n. p-----        | no place.                     |
| app-----          | appendix, appendixes.                 | no., nos-----    | number, numbers.              |
| bk., bks-----     | book, books.                          | p-----           | page, pages.                  |
| chap-----         | chapter, chapters.                    | p. of pl-----    | pages of plates.              |
| Cong-----         | Congress.                             | par., pars-----  | paragraph, paragraphs.        |
| Dept-----         | Department.                           | pl-----          | plate, plates.                |
| doc-----          | document.                             | por-----         | portrait, portraits.          |
| facsim-----       | facsimile, facsimiles.                | pt., pts-----    | part, parts.                  |
| fy-----           | fiscal year.                          | rp-----          | report.                       |
| G.H.A-----        | Greenwich hour angle.                 | S-----           | Senate, Senate bill.          |
| H-----            | House.                                | S. Con. Res----- | Senate concurrent resolution. |
| H. Con. Res-----  | House concurrent resolution.          | S. doc-----      | Senate document.              |
| H. doc-----       | House document.                       | S. ex. doc-----  | Senate executive document.    |
| H. ex. doc-----   | House executive document.             | S. ex. rp-----   | Senate executive report.      |
| H. J. Res-----    | House joint resolution.               | S. J. Res-----   | Senate joint resolution.      |
| H.R-----          | House of Representatives, House bill. | S. Res-----      | Senate resolution.            |
| H. Res-----       | House resolution.                     | S. rp-----       | Senate report.                |
| H. rp-----        | House report.                         | sec-----         | section, sections.            |
| il-----           | illustration, illustrations.          | sess-----        | session, sessions.            |
| in-----           | inch, inches.                         | Stat. L-----     | Statutes at large.            |
| lat-----          | latitude.                             | supp-----        | supplement.                   |
| long-----         | longitude.                            | tab-----         | table, tables.                |
| m-----            | mile.                                 | Treas-----       | Treasury.                     |
|                   |                                       | v-----           | volume, volumes.              |
|                   |                                       | vs., v-----      | versus.                       |

Common abbreviations for the names of States, months, etc., are also used.

An explanation of the symbols used to designate sizes of publications is given on the inside of the front cover.

## Explanation

The individual issuing department, bureau, office, or agency is considered the publisher of Government publications.

Words and figures enclosed in brackets [ ] in titles are given for information, but do not appear on the title pages of the publications cataloged. Place and printer are not given for publications printed at the United States Government Printing Office, Washington, D.C., or at Government departmental and field printing plants. The dates given with Senate and House documents and reports are the dates on which they were ordered to be printed. Usually the printing promptly follows the ordering, but various causes sometimes make delays.

Under provisions of the Printing Act of January 12, 1895, all Government publications, except administrative and confidential (or restricted), are entered in the Monthly Catalog.

The L.C. card number appended to some of the entries is for those libraries ordering printed cards from the Library of Congress. The number at the extreme right of an entry indicates the classification of the publication in the Office of the Superintendent of Documents.

# General Information

The Superintendent of Documents, Government Printing Office, Washington, D.C., is authorized by law to sell copies of Government publications and to allow a discount of 25 percent to book dealers and also to quantity purchasers of 100 or more copies of a single publication on condition that they will adhere to the public sales price set by the Superintendent of Documents and that publications shall not be overprinted with any advertising matter.

Publications cannot be supplied free to individuals nor forwarded in advance of payment.

## PRICE LIST

There is no general price list of public documents, but numerous lists have been prepared on special subjects and any of these will be furnished free, on application, by subject or subjects concerning which information is desired. It will also be noted that current publications which are for sale are listed in this catalog.

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In addition to the price lists, the Documents Office issues a biweekly list of Selected United States Government publications for sale by the Superintendent of Documents. Each list is arranged alphabetically by subjects, with annotations and prices, and may be obtained free upon application to the Superintendent of Documents.

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More than 12,000 different bills are usually introduced during a Congress, and there are additional prints on many during the progress of the legislation. With the exception of a very few—such as revenue bills—the demand is an unknown quantity and on most of them we receive no orders, which makes it impossible to print a sales supply. It may be that a copy could be obtained from your Congressman.

A difficult problem is also presented in providing a supply of congressional documents, hearings, and reports because there are approximately 6,000 of this class of publications issued during a Congress and only a few of them are called for. We will attempt to print for sale a few of the more important ones, but if not priced the only possible source would be from your Congressman.



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In ordering a publication from the Superintendent of Documents, give (if known) the name of the publishing department, bureau, or agency, and the title, together with the classification number which is added to the entry at the extreme right; order the congressional documents and reports by the title, together with the document or report number and the Congress, e.g., H. doc. 103, 88th Congress.

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Remittances for documents marked with an asterisk (\*) should be made to the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C., 20402, by coupon, postal money order, express order, or check. Publications cannot be mailed in advance of receipt of remittance. Currency may be sent at sender's risk. Foreign remittances should be made either by international money order or draft on an American bank.

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Persons who made frequent purchases from the Superintendent of Documents may find a deposit account convenient. Deposits of \$25.00 or more are accepted against which orders may be placed without making individual remittances or first obtaining quotations. Order blanks are furnished for this purpose. After the handling of the order has been completed, it will be returned showing the publications supplied, explanations regarding those not sent, the amount of charge, and the balance on deposit.

No charge is made for postage on documents forwarded to points in United States and possessions, or to Canada, Cuba, Mexico, and certain Central and South American countries. To other countries the regular rate of postage is charged, and remittances must cover such postage. In computing foreign postage, add one-fourth of the price of the publication.

### LIBRARY CLASSIFICATION IN DOCUMENTS OFFICE

The classification given at the right of entries for departmental publications is that used in the Library of the Division of Public Documents. It is also used as a catalog number for sales stock of this office. The shilling mark (/) separates what would ordinarily be superior or inferior numbers or letters, as it is not practicable to print these numbers or letters as superiors or inferiors in the Monthly Catalog.

# New Classification Numbers

|                                 |  |
|---------------------------------|--|
| A 21.29 : nos-----              | Information Office.<br>Service, USDA's report to consumers (monthly).  |
| AC 1.13 : CT-----               | Arms Control and Disarmament Agency.<br>Bibliographies and lists of publications.  |
| C 3.208/2 : nos-----            | Census Bureau.<br>Area measurement reports, GE-20 (series).  |
| D 103.43 : nos-----             | Engineer Corps (Army).<br>Pamphlet EP (series).  |
| FS 2.22/30-2 : v.nos.& nos----- | National Institutes of Health.<br>Cancer chemotherapy abstracts.   |
| FS 2.303 : date-----            | Public Health Service.<br>Activities report, Basic and Applied Sciences Branch, Division of Water Supply and Pollution Control (annual).   |
| IC 1 ste.38/2 : date-----       | Interstate Commerce Commission.<br>Train and yard service of class 1 railroads in United States, statement Q-210(OS-A).  |
| L 16.47/2 : CT-----             | NOTE.—Replaces 3 statements: Q-211, Freight train performance (IC 1 ste.35.); Q-213, Passenger train performance (IC 1 ste.37.); and Q-215, Yard service performance (IC 1 ste.38.).<br>Labor Standards Bureau.<br>Maritime safety data for shipyards. |

## Discontinued Series

|                            |   |
|----------------------------|---|
| FS 5.37 : v.nos.& nos----- | Education Office.<br>Higher education, reporting Federal activities and matters of national concern (monthly, Sept.-May). |
|----------------------------|---|

NOTE.—Discontinued with v. 20, no. 9, June 1964.

## Corrections for Previous Monthly Catalogs

- Feb. 1962. Entry 4308, Rural areas development newsletter. Correct class to read A 21.25/3 : (nos.).
- Feb. 1963. Entry 4160, Rural areas development newsletter. Correct class to read A 21.25/3 : (nos.).
- Oct. 1963. Entry 16892, Current industrial reports: Communication equipment, 1962. Correct series on publication to read BDSAF-363A(62)-1. Correct class to read C 3.158 : BDSAF-363A(62)-1.
- Dec. 1963. Page 350, 1st column, under Iron—Continued, iron and steel, mineral industry survey—annual, correct Entry number to read 16326.
- Page 609, 2d column, change subject Three-problem body to read Three-body problem.
- Jan. 1964. Entry 872, Decisions of Interstate Commerce Commission, July-Dec. 1960. Correct distribution statement to read \* Cloth, \$4.00.
- Entry 1533, Enzymatic deoxygenation, new concept in corrosion prevention (report #2). Correct class to read D 105.11/2 : C 81/2.
- Feb. 1964. Entry 3997, Rural areas development newsletter. Correct class to read A 21.25/3 : (nos.).

- Apr. 1964. Entry 7839, Interpretative bulletin, title 29, Code of Federal Regulations, pt. 782. Exemption from maximum hours for certain employees of motor carriers under Fair labor standards act of 1938, as amended. Correct class to read L 22.10: 782/8.
- May 1964. Entries 8440-8442, [Committee hearings]. Correct class to read Y 4.C 73/2: 88/nos.
- July 1964. Entry 12531, Final report of Advisory Group on Future of Saint Elizabeths Hospital. Correct distribution symbol to read ‡. This publication was printed for official use only and no copies are available for distribution.
- Entry 13552, Women private-household workers, fact sheet. Correct class to read L 13.2: II 81/10/964.
- Aug. 1964. Entry 14694, Occupational wage survey: South Bend, Ind., Mar. 1964. Correct Bulletin number to read 1385-51.
- Entry 15017, Evaluation of elastomers for potential use at cryogenic temperatures. Correct class to read D 105.11/2: E1 1/2.
- Entry 15062, Problem of sanitary protection of atmospheric air in USA. Correct class to read FS 2.2: A1 7/27.
- Entry 15146, Correct first line to read: Interpretative bulletin, title 29 of Code of Federal regulations.
- Page 138, 1st column, under Military aid: foreign assistance appropriations, 1965, reports, correct 19352 to read 13952.



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# Monthly Catalog

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## ADVISORY COMMISSION ON INTERGOVERNMENTAL RELATIONS Washington, D.C. 20575

- 16929 Advisory Commission on Intergovernmental Relations, to improve effectiveness of American federal system through increased cooperation among national, State, and local levels of government. Aug. 1, 1964. cover title, 61 p. 16° (M-17.) [Text on p. 2 of cover.] † • Item 1049-D L.C. card 63-60295 Y 3.Ad 9/8: 2 Ad 9/964
- 16930 Tax overlapping in United States, 1964. July 1964. x+235 p. il. 4° ([Staff information report] M-23.) \* Paper, \$1.50. • Item 1049-D L.C. card 64-62640 Y 3.Ad 9/8: 2 T 19/2/964

## AGRICULTURAL MARKETING SERVICE, Agriculture Dept. Washington, D.C. 20250

AMS (series).

- 16931 219. Information for applicants for poultry inspection. [Revised July 1964.] [1964.] [2]+13 p. 4° † A 88.40: 219/964

## AGRICULTURAL RESEARCH SERVICE, Agriculture Dept. Washington, D.C. 20250

ARS (series). † A 77.15: (nos.)

- 16932 42-93. Disposal of poultry manure and other waste [with bibliography]; by Harry J. Eby. June 1964. 10 p. 4° L.C. card Agr. 64-397
- 16933 42-99. Spray-distribution patterns from low level applications with high-wing monoplane; [by] V. D. Young [and others]. Aug. 1964. 8 p. il. 4° [Cooperative investigation of Agricultural Engineering Research Division and Entomology Research Division, Forest Grove Oreg.] L.C. card Agr 64-424
- 16934 74-28. Bulgur wheat recipes; by Marjorie Held. Feb. 1964. 54 p. 4° [Illustration on cover.] L.C. card Agr 64-430
- 16935 Blister rust found on limber pine in northern Wasatch Mountains [with list of literature cited; by] R. G. Krebill. [1964.] p. 532, 4° [From Plant disease reporter, July 15, 1964, v. 48, no. 7.] † A 77.511/a: B 619
- 16936 List of publications & patents with abstracts, Jan.-June 1964. [July 1964.] 23 p. 4° (Western Utilization Research & Development Division; WURDD list 18.) † A 77.17/2: 18 L.C. card 55-23547
- 16937 New mite species Psorergates bos, cattle itch mite, reported in New Mexico and Texas, [and Psorergates ovis in sheep]. May 20, 1964. [2] p. 4° (Animal Disease Eradication Division.) † A 77.202: M 69
- 16938 Plant quarantine import requirements of foreign countries for oak logs and lumber, Jan. 2, 1963, additions. Aug. 20, 1964. 1 p. 4 (Plant Quarantine Division.) † A 77.306: L 82/add.
- 16939 Plant quarantine import requirements of Sweden. Sept. 1, 1964. 10 p. (Plant Quarantine Division.) [Issued with perforations. Supersedes summary dated Oct. 23, 1961, and temporary memorandum dated Nov. 9, 1962.] † A 77.329: Sw 32/964

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# GOVERNMENT PUBLICATIONS

- 16940 Unusual parasite infestations reported. May 20, 1964. 4 p. 4° (Animal Disease Eradication Division.) † A 77.202: P 21/4

## AGRICULTURAL STABILIZATION AND CONSERVATION SERVICE, Agriculture Dept., Washington, D.C. 20250

- 16941 Pesticide situation for 1963-64; [prepared by Harold H. Shepard and John N. Mahan]. June 1964. ii+26 p. il. 4° [Report from Defense Activities Staff.] †  
L.C. card 53-61131 A 82.76: 963-64

## AGRICULTURE DEPARTMENT

Washington, D.C. 20250

NOTE.—Requests to the Department of Agriculture for publications should include the USDA number if given in the entry.

- 16942 Address by John A. Baker, Assistant Secretary, Department of Agriculture, before American Country Life Association, National 4-H Center, Washington, D.C., July 7, 1964. [1964.] 9 p. 4° (USDA 2209-64.) †  
A 1.40: B 17/22

- 16943 Address by Secretary of Agriculture Orville L. Freeman at Commonwealth Club of California, San Francisco, July 24, 1964. [1964.] 15 p. 4° (USDA 2431-64.) †  
A 1.40: F 87/164

Agriculture handbooks. ● Item A 1.76: (nos.)

- 16944 14. Films of U.S. Department of Agriculture; [prepared by Motion Picture Service, Office of Information]. [Revised Aug. 1964.] 1964. cover title, [1]+86+[1] p. \* Paper, 35c.  
L.C. card Agr 24-692

- 16945 249. Common trees of Puerto Rico and Virgin Islands; by Elbert L. Little, jr., and Frank H. Wadsworth. July 1964. x+548 p. il. 4° (Forest Service.) \* Cloth, \$4.25.  
L.C. card Agr 64-50

- 16946 267. Commercial potato production; by August E. Kehr, Robert V. Akeley, and Geoffrey V. C. Houghland. July 1964. iv+59 p. il. 4° (Agricultural Research Service.) [Some illustrations are colored.] \* Paper, 60c.  
L.C. card Agr 64-399

- 16947 270. Evaluation of bermudagrass varieties for general-purpose turf [with list of literature cited]; by F. V. Juska and A. A. Hanson. Aug. 1964. [2]+54 p. il. (Agricultural Research Service.) \* Paper, 25c.  
L.C. card Agr 64-414

- 16948 275. Handbook of agricultural charts, 1964. [Sept. 1964.] cover title, 164 p. il. (Economic Research, Statistical Reporting, Agricultural Research, Foreign Agricultural Services.) \* Paper, 50c.  
L.C. card 64-62697

- 16949 American agriculture and international rural development, address by Secretary of Agriculture Orville L. Freeman at Conference on International Rural Development, State Department, Washington, D.C., July 27, 1964. [1964.] 13 p. 4° (USDA 2491-64.) †  
A 1.40: F 87/165

- 16950 Be wise, consumer's quick credit guide. [June 1964.] [2] p. il. narrow large 8°, folded into oblong 48° size. [Issued at request of President's Committee on Consumer Interest.] \* Paper, \$2.50 per 100; single copy, 5c. ● Item 11-C  
A 1.11/3: C 86

Farmers' bulletin. ● Item 9

- 16951 1028. Strawberry culture; Eastern United States; [prepared by Crops Research Division, Agricultural Research Service]. [Revised Mar. 1961; slightly revised Aug. 1964.] [1964.] 20 p. il. \* Paper, 10c. A 1.9: 1028/8

- 16952 Farmer's world, yearbook of agriculture 1964; [Alfred Stefferud, editor]. [1964.] xiv+[1]+592 p. il. [Yearbook is made up of signed articles. Also issued as H. doc. 279, 88th Cong., 2d sess.] \* Cloth, \$3.00. ● Item 17  
L.C. card Agr 64-429 A 1.10: 964

Home and garden bulletins. ● Item 11 A 1.77: (nos.)

- 16953 77. Family food stockpile for survival; [prepared by Department of Agriculture in cooperation with Office of Civil Defense, Department of Defense.] [Aug. 1961, slightly revised Aug. 1964.] [1964.] 16 p. il. \* Paper, 10c.

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# OCTOBER 1964

- 16954 97. Sanitation in home laundering; [by Ethel McNeill]. [Apr. 1964, slightly revised Aug. 1964.] [1964.] 8 p. il. \* Paper, 5c.
- 16955 98. Guide to budgeting for young couple; [prepared by Consumer and Food Economics Research Division, Agricultural Research Service]. [Aug. 1964.] 16 p. il. [Includes list of publications prepared by Agriculture Department that may be helpful in getting most for your money.] \* Paper, 10c. L.C. card Agr 64-406

## Leaflet. ● Item 12

- 16956 430. Cockroaches, how to control them; [prepared by Entomology Research Division, Agricultural Research Service]. [Mar. 1958, slightly revised Sept. 1964.] [1964.] 8 p. il. [Supersedes Leaflet 144, Cockroaches and their control.] \* Paper, 5c. A 1.35: 430/3

## Marketing research reports. ● Item 13-B

A 1.82: (nos.)

- 16957 661. Improved handling of dairy products in retail food stores; [by Gordon Flynn]. [Aug. 1964.] 24 p. il. 4° (Transportation and Facilities Research Division, Agricultural Marketing Service.) \* Paper, 20c. L.C. card Agr 64-422
- 16958 672. Producer delivery patterns in New England milk markets; [by Sargent Russell]. [July 1964.] cover title, iv+111 p. il. 4° (Agricultural Marketing Service, Economic Research Service.) [Prepared in cooperation with Maine and Vermont Agricultural Experiment Stations.] \* Paper, 65c. L.C. card Agr 64-405
- 16959 673. Interstate hauling of California-Arizona fresh fruits and vegetables by rail and truck; [by Robert M. Bennett]. [Aug. 1964.] iv+36 p. il. 4° (Economic Research Service.) [Includes sources of information.] † L.C. card Agr 64-412

## Miscellaneous publications. ● Item 13-A

A 1.38: (nos.)

- 16960 960. Dining areas; [prepared by Genevieve K. Tayloe, Constance D. O'Brien and W. Russell Parker]. July 1964. 4 p. il. 4° (House planning aids; [Clothing and Housing Research Division, Agricultural Research Service.]) [Based on cooperative research with Southern, Northeastern, North Central and Western regions.] \* Paper, 5c.
- 16961 961. Laundry areas; [prepared by Genevieve K. Tayloe, W. Russell Parker, and Mildred S. Howard]. Aug. 1964. 4 p. il. 4° (House planning aids; [Clothing and Housing Research Division, Agricultural Research Service.]) [Based on cooperative research with Southern, Northeastern, North Central and Western regions.] \* Paper, 5c.
- 16962 963. Administrative manual for Hatch (experiment station) act as amended and sec. 204(b) of Agricultural marketing act. Aug. 1964. cover title, ii+21 p. 4° [Cooperative State Research Service.] [Prepared for use by State agricultural experiment station directors and others concerned with administration and use of these funds. Supersedes Miscellaneous publication 515, last revised Jan. 1959.] \* Paper, 20c. L.C. card Agr 64-425

- 16963 National Fire Prevention Week, Oct. 4-10, 1964, only you can prevent fires. [Aug. 1964.] [6] p. il. narrow, 8° [Prepared in cooperation with National Fire Protection Association.] † ● Item 13-E A 1.92: 964

## PA [Program aid] (series). ● Item 14-A

A 1.68: (nos.)

- 16964 348. Soil and water conservation activities for Boy Scouts; [by Albert B. Foster, and Adrian C. Fox]. [Revised Aug. 1964.] [1964.] [2]+30 p. il. 4° (Soil Conservation Service.) \* Paper, 20c.
- 16965 625. Rural areas development at work. [Sept. 1964.] [32] p. il. oblong 8° (Office of Information.) † L.C. card Agr 64-428
- 16966 626. Sureness is yours with inspected meat; [prepared by Meat Inspection Division, Agricultural Research Service.] Aug. 1964. [6] p. il. narrow 8° \* Paper, 5c.
- 16967 628. Questions and answers about eradicating hog cholera; [prepared by Animal Disease Eradication Division, Agricultural Research Service.] [July 1964.] [8] p. il. narrow 8° †
- 16968 630. Food for peace helps feed 92 million hungry people, story of American food and battle against world hunger. [July 1964.] [6] p. il. narrow 8° (Federal Extension Service.) [Prepared in cooperation with Foreign Agricultural Service.] †

## Production research report. ● Item 13-C

- 16969 84. Pinon-Juniper type of Arizona, effects of grazing, fire, and tree control [with list of literature cited: by Joseph F. Arnold, Donald A. Jameson, and Elbert H. Reid.] Sept. 1964. [2]+28 p. il. 4° (Forest Service.) † L.C. card Agr 64-410 A 1.84: 84

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# GOVERNMENT PUBLICATIONS

## Statistical bulletins. ● Item 15

A 134: (nos.)

- 16970 333. Supplement for 1963 to livestock and meat statistics, 1962. Aug. 1964. vi+161 p. 4° (Agricultural Marketing Service, Statistical Reporting Service, [and] Economic Research Service.) †  
L.C. card Agr 58-260
- 16971 348. Commercial fertilizer used on crops and pasture in United States, 1959 estimates. [by D. B. Ibach, J. R. Adams, and Esther I. Fox]. [July 1964.] cover title, 200 p. il. 4° (Economic Research Service and Agricultural Research Service.) [Text on p. 2-3 of cover.] \* Paper, \$1.25.  
L.C. card Agr 64-404
- 16972 350. Commercial peanuts, stocks, millings, processing, seasons 1939-40 through 1962-63, months Aug. 1949-July 1963: [compiled by R. L. Schulte]. [Sept. 1964.] 45 p. il. 4° (Statistical Reporting Service, Crop Reporting Board.) [Supersedes Statistics on commercial peanuts by seasons, 1938-39 to 1949-50, months 1944-45 to 1949-50, and Statistics on commercial peanuts by months and seasons, Sept. 1938-Aug. 1944, published in 1951 and 1945.] \* Paper, 30c.  
L.C. card Agr 64-427

## Technical bulletins. † ● Item 16

A 136: (nos.)

- 16973 1295. Tabanidae (Diptera) of Florida [with list of literature cited]: by Calvin M. Jones and Darrell W. Anthony. July 1964. [2]+85 p. il. (Agricultural Research Service.) [Prepared in cooperation with Florida Agricultural Experiment Station.]  
L.C. card Agr 64-416
- 16974 1308. Inheritance of morphologic characters in Avena [with list of literature cited: by Franklin A. Coffman]. [Aug. 1964.] [2]+101 p. il. 1 pl. (Agricultural Research Service.) [Plate is colored.]  
L.C. card Agr 64-435

## AIR FORCE, DEPARTMENT, Defense Dept.

Washington, D.C. 20330

### AFCRL (series). (Air Force Cambridge Research Laboratories, Office of Aerospace Research.)

- 16975 64-155. See, below, Physical sciences research papers 5.  
16976 64-163, errata. See, below, Air Force surveys in geophysics 156.  
16977 64-455. See, below, Environmental research papers 22.  
16978 64-460. See, below, Physical sciences research papers 24.  
16979 64-475. See, below, Environmental research papers 23.  
16980 64-478. See, below, Physical sciences research papers 23.  
16981 64-485. See, below, Physical sciences research papers 22.  
16982 64-511. See, below, Physical sciences research papers 28.  
16983 64-520. See, below, Special reports 3.  
16984 64-553. See, below, Environmental research papers 33.  
16985 64-554. See, below, Environmental research papers 34.

### AFOSR (series). (Air Force Office of Scientific Research, Office of Aerospace Research.)

- 16986 700. Air Force scientific research bibliography: v. 2, 1957-58: by G. Vernon Hooker [and others], Special Bibliographies Section, Science and Technology Division, Library of Congress, supported by Directorate of Information Sciences. 1964. xxi+1103 p. il. 4° (AFOSR 64-0967.)  
\* Cloth, \$6.50. ● Special offer  
L.C. card 61-60038 D 301.45/19-2: 700/v.2

### Air Force Flight Test Center: Technical documentary report FTC-TDR (series). (Air Force Systems Command, Edwards Air Force Base, Calif.) †

D 301.45/31-2: (nos.)

- 16987 64-17. 35-ft. ring-slot parachute extraction system development: [by] Henry J. Hunter and Robert P. Hastings. July 1964. cover title, iii-iv+56 p. il. 4° (AFFTC project directive 62-27.)
- 16988 64-22. YAT-28E limited category 2 systems evaluation: [by] James R. Lindsay, Russell L. Rogers. Aug. 1964. cover title, iii-iv+69 p. il. 4° (AFFTC project directive 64-9.)

### Air Force manual AFM (series).

- 16989 146-6. See Army Department, technical manual 10-418.

### Air Force pamphlet AFP (series).

- 16990 160-15-1. See Public Health Service, Film reference guide for medicine and allied sciences, by Federal Advisory Council on Medical Training Aids (FACMTA).
- 16991 190-3-2. See Armed Forces Information and Education, DOD pamphlet GEN-7.
- 16992 211-1-4A. See Armed Forces Information and Education, DOD pamphlet GEN-6.

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**Air Force surveys in geophysics. (Air Force Cambridge Research Laboratories, Office of Aerospace Research.)**

- 16993 156. Operational prediction of diffusion downwind from line source: [by] William P. Elliott, Morton L. Barad, Mar. 1964, Errata. [1964.] 1 p. 4° (AFCRL-64-163.) † D 301.45/9:156/errata

**Electronic Systems Division: Technical documentary report ESD-TDR (series). (Electronic Systems Division, Air Force Systems Command, L. G. Hanscom Field, Bedford, Mass.) Φ (Price upon application.)**

- 16994 64-506. Instantaneously-responding expansion amplifier, method and device for signal enhancement in noisy communication systems: [by] Laurence E. Orne, Stephen E. Stuntz. July 1964. cover title, [1]+iii-iv+18 leaves, il. 4° (Decision Sciences Laboratory; project 2808, task 280801.) Φ (Price upon application.) D 301.45/28-2:64-506

**Environmental Research papers. (Air Force Cambridge Research Laboratories, Office of Aerospace Research, L. G. Hanscom Field, Mass.)**

D 301.45/39: (nos.)

- 16995 22. Ionospheric perturbations, solar flares, and geomagnetic storms, correlations observed by oblique long-range high-frequency probing [with bibliography; by] Helen R. Baker, Alfred E. Reilly. June 1964. ix+72+[1] p. il. 4° (AFCRL-64-455; Upper Atmosphere Physics Laboratory project 4649.) [Errata, 4 leaves, il., was issued also.] Φ (Price upon application.)
- 16996 23. Laser-satellite reflection parameters [with list of references; by] Robert L. Bliff. June 1964. vii+13+[1] p. il. 4° (AFCRL-64-475; Terrestrial Sciences Laboratory project 7600.) Φ (Price upon application.)
- 16997 33. Radioactivity in Sputnik 4 fragment [with list of references; by] John T. Wasson. July 1964. [1]+2223 30+[2] p. (AFCRL-64-553; Meteorology Laboratory project 7690.) [Reprinted from Journal of geophysical research, v. 69, no. 11, June 1, 1964.] †
- 16998 34. Falling sphere measurements of atmospheric density, temperature and pressure, up to 115 km, [with list of references; by] K. S. W. Champion [and] A. C. Faire. July 1964. vii+27+[2] p. il. 4° (AFCRL-64-544; Upper Atmosphere Physics Laboratory project 6690.) [Paper presented at 5th International Space Sciences Symposium (COSPAR) in Florence, Italy, May 1964.] Φ (Price upon application.)

- 16999 Lectures in aerospace medicine [with bibliographies, held at School of Aerospace Medicine] Feb. 3-7, 1964. [1964.] [8]+iv+320 p. il. 4° (School of Aerospace Medicine, Aerospace Medical Division (AFSC), Brooks Air Force Base, Tex.) †
- L.C. card 60-64505 D 301.26/13-5: Ae 8/964

**Lunar charts and mosaics [charts of the moon] series.**

NOTE.—The 1st series of charts consisting of LEM-1, 1A, LAC 58, 76, 57, 75, 74, 93, 60, 61, 78, 79, 59, 77, and 56 may be purchased as a set. \* \$7.50 per set.

The 2nd series, which when complete will include LEM-1B, LAC 41, 40, 39, 62, 80, 94, 42, and 95, may also be purchased on a subscription basis. \* \$5.50, \$1.50 additional for foreign mailing.

- 17000 LAC 76. Montes Rhiphaeus. Scale 1:1,000,000. 2d edition. Apr. 1964. 1964. Aeronautical Chart and Information Center [June 1964]. 22 x 29 in. [Mercator projection. Published for Air Force and National Aeronautics and Space Administration.] \* 50c. D 301.49/4: LAC 76/964

**OAR (series). (Office of Aerospace Research.)**

- 17001 64-6. United States Air Force research accomplishments. June 1964. [155] p. il. 4° Φ (Price upon application.)
- L.C. card 64-62740 D 301.69/3:64-6/964

**Personnel Research Laboratory: Technical documentary report PRY-TDR (series).**

- 17002 64-15. Identification of job requirement factors by use of simulated job descriptions; by Joseph M. Madden, M. Joyce Giorgia. June 1964. iii+13 p. 4° (Project 7734, task 773402.) † D 301.45/27:64-15

**Physical sciences research papers. (Air Force Cambridge Research Laboratories, Office of Aerospace Research, L. G. Hanscom Field, Mass.)**

D 301.45/40: (nos.)

- 17003 5. Intelligibility of excerpts from fluent speech, effects of rate of utterance and duration of excerpt [with list of references, by] J. M. Pickett, Irwin Pollack; [and] Intelligibility of excerpts from conversation, with list of references, by Irwin Pollack and J. M. Pickett. Mar. 1964. [3]+151-171 p. il. 4° (AFCRL-64-155; Data Sciences Laboratory project 5628.) [Reprinted from Language and speech, v. 6, pt. 3, July-Sept. 1964.] †

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## Physical sciences research papers—Continued

- 17004 14. Rydberg absorption series of N<sub>2</sub> [with list of references; by] M. Ogawa, Y. Tanaka. May 1964. [1]+1593-1607 p. il. 2 pl. 4° (AFCLR-64-349; Upper Atmosphere Physics Laboratory project 8627.) [Reprinted from Canadian journal of physics, v. 40, 1962.] †
- 17005 22. On optimum design of multipath signals [with list of references; by] Neil J. Bershad. June 1964. v+11 p. il. 4° (AFCLR 64-485; Data Sciences Laboratory project 5628.) † (Price upon application).
- 17006 23. Area properties of television pictures [with list of references; by] S. Nishikawa, R. J. Massa, J. C. Mott-Smith. June 1964. v+15 p. il. 4° (AFCLR-64-478; Data Sciences Laboratory project 4610.) † (Price upon application).
- 17007 24. Geometric study of coherence properties of partially polarized electromagnetic radiation [with list of references; by] E. Folke Bolinder. June 1964. v+20+[2] p. il. 4° AFCLR 64-460; Microwave Physics Laboratory project 5635.) † (Price upon application).
- 17008 28. Plasma produced antenna pattern distortion [with list of references; by] Daniel J. Jacavanco. June 1964. vii+23+[3] p. il. 4° (AFCLR-64-511; Microwave Physics Laboratory project 4642.) † (Price upon application).

## School of Aerospace Medicine: Technical documentary report SAM-TDR (series). (Aerospace Medical Division (AFSC), Brooks Air Force Base, Tex.) † D 301.26/13-6: (nos.)

- 17009 64-16. Survey of proton exposure facilities [with list of references; prepared in Bionucleonics Department]. June 1964. cover title, iii+6 p. 4° (Task 775704.)
- 17010 64-17. Measurement of airway resistance with volume displacement body plethysmograph [with list of references; by] M. J. Jaeger, A. B. Otis]. June 1964. cover title, iii+13 p. il. 4° (Task 775801.) [Prepared under contract AF 41(657)-102 and AF 41(609)-1553 by University of Florida, College of Medicine, Gainesville, Fla.]
- 17011 64-33. Catheter-tip flowmeter for measurement of coronary arterial blood flow in intact anesthetized dogs [with list of references; by] Heinz P. Pieper]. June 1964. cover title, iii+8 p. il. 4° (Task 775801.) [Prepared under contract AF 41(609)-1454 by Ohio State University Research Foundation, Columbus, Ohio.]
- 17012 64-34. Effects of visual display mode on 6 hours of visual monitoring [with list of references; by] Carl E. Webber and Jack A. Adams]. June 1964. cover title, iii+10 p. il. 4° (Task 775104.) [Prepared under contract AF 41(609)-1481 by University of Illinois, Urbana, Ill.]
- 17013 64-37. Baseline values for intramuscular ACTH test based on parotid fluid free 17-hydroxycorticosteroid levels [with list of references; by] Ira L. Shannon, John R. Prigmore, Steven C. Beering.]. July 1964. cover title, iii+4 p. 4° (Task 775602.)
- 17014 64-39. Polarographic determination of oxygen content and capacity in single blood sample [with list of references; by] Domenic A. Maio and James R. Neville]. July 1964. cover title, iii+7 p. il. 4° (Task 775802.)
- 17015 64-44. Cerebral arteriovenous differences in metabolic substrates during hyperthermia [with list of references; by] Harry M. Frankel, Stephen M. Cain]. Aug. 1964. cover title, iii+7 p. 4° (Task 775801.) [Prepared under contract AF 41(609)-1499 by Rutgers, State University, New Brunswick, N.J.]

## Special reports. (Air Force Cambridge Research Laboratories, Office of Aerospace Research, Hanscom Field, Mass.)

- 17016 3. Worldwide collection and evaluation of earthquake data, final report on evaluation of 1960 seismicity [with list of references; by] R. L. Fisher, R. G. Baker, R. R. Guidroz. June 1964. viii+196+[1] p. il. 4° (AFCLR-64-520; Terrestrial Sciences Laboratory project 8652.) [Prepared by Texas Instruments Incorporated under contract AF 19(604)-8517, work sponsored by Advance Research Project Agency, project VELA UNIFORM.] † Price upon application). D 301.45/42: 3

## AIR TRAFFIC SERVICE, Federal Aviation Agency Washington, D.C. 20553

- 17017 FAA's modernized flight service station system. Aug. 1964. [3]+20 p. il. † ● Item 431-D-5  
L.C. card 64-62661 FAA 3.2: F 64
- 17018 Flight information manual, v. 15, Sept. 1964. [1964.] [121] p. il. 4° (Flight Information Division, National Flight Data Center (AT-650).) [Issued in loose-leaf form.] \*Paper. \$3.75 (including basic manual and supplementary service for an indefinite period); \$1.00 additional for foreign mailing. ● Item 431-C-17 FAA 3.13/2: 15

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- 17019 Service A weather schedules, AT P 7330.2A [Change] 3 [July 14, 1964]. [1964.] [91] p. map 4° [Cancellation date Oct. 1, 1964. Issued in loose-leaf form.] ‡ ● Item 431-D-1 FAA 3.8: W 37/963/ch.3

**AIRPORTS SERVICE, Federal Aviation Agency**  
Washington, D.C. 20553

- 17020 Airport cargo facilities [with bibliography of reference materials, effective Apr. 4, 1964.] cover title, [1]+ii+29+1 p. il. 4° (Federal Aviation Agency advisory circular 150/5360-2.) [Issued with perforations.] ‡ ● Item 431-H-2 FAA 8.8: C 19  
L.C. card 64-62651
- 17021 Airport paving [with list of references, effective June 10, 1964]. June 1964. cover title, 2+ii+71+8 p. il. 4° (Federal Aviation Agency advisory circular AC 150/5320-6). [Issued with perforations. Cancels CAA airport paving, Oct. 1956, FAA airport paving, Nov. 1962 (reprint), and AC 150/5320-8, Airport paving design curves based on gross aircraft weight, Apr. 5, 1963.] ‡ Federal Aviation Agency, Distribution Section, HQ-438, Washington, D.C., 20553. ● Item 431-H-2 FAA 8.8: P 28/964  
L.C. card 63-60157

**AREA REDEVELOPMENT ADMINISTRATION, Commerce Dept.**  
Washington, D.C. 20230

- 17022 ARA field report: Opportunities for economic growth in Butler County, Ala. Aug. 1964. 8 p. il. 4° ‡ Paper, 10c. C 46.22: B 97
- 17023 — Opportunities for economic growth in Marquette County, Mich. Aug. 1964. 8 p. 4° ‡ Paper, 10c. C 46.22: M 34
- 17024 Economic redevelopment research; Negro-white differences in geographic mobility; [prepared by Eva Mueller and William Ladd]. Aug. 1964. 22 p. il. \* Paper, 15c. ● Item 130-I C 46.24: G 29/2  
L.C. card 64-60064
- 17025 — Propensity to move; [prepared by John B. Lansing and William Ladd]. July 1964. 20 p. il. \* Paper, 15c. ● Item 130-I C 46.24: M 86  
L.C. card 64-60075
- 17026 Eligible redevelopment areas, approved projects and public works acceleration areas, July 1, 1964 [colored map]. Scale 300m.=3.8 in. 1964. 32x 42 in. (Office of Planning and Research.) \* Paper, 20c. C 46.17: R 24/964-2  
Insets: Alaska, Guam and American Samoa, Hawaii, Puerto Rico and Virgin Islands.
- 17027 Technical and economic feasibility of establishing hardwood pulp and paper mill in 8-county area of western Kentucky; [prepared by Spindletop Research Center, Lexington, Ky.]. Aug. 1964. xii+[201] p. il. 4° \* Paper, \$1.00. ● Item 130-D C 46.2: P 96/4  
L.C. card 64-62509
- 17028 Technical study of scallop & flounder industry of New Bedford, Mass. [with bibliography]. [1964.] cover title, xi+195 p. il. 4° [Product of technical assistance contract with Research Foundation of New Bedford Institute of Technology.] \* Paper, \$1.00. ● Item 130-D C 46.2: Sca 4  
L.C. card 64-62510

**ARMED FORCES INFORMATION AND EDUCATION, Defense Dept.**  
Washington, D.C. 20301

DOD pamphlets. ● Item 312-A D 2.14: (letters-nos.)

- 17029 GEN-6. Voting information 1964, Change 1. Aug. 13, 1964. 8 p. 4° ([Army Dept.] DA Pam 360-503, C 1; [Navy Dept.] NAVPERS 15868E Ch. 1; [Air Force Dept.] AFP 211-1-4A; [Marine Corps] NAVMC 1174 (rev. 64) Ch. 1; [Coast Guard] Ch. 1, CG 292.) ‡

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### DOD pamphlets—Continued

- 17030 GEN-7. Armed Forces news guide. [1964.] cover title, iv+58 p. ([Army Dept.] DA pam 360-509; [Navy Dept.] NAVEXOS P-2456; [Air Force Dept.] AFP 190-3-2.) \* Paper, 25c.

For commanders, this changing world. [Semimonthly.] \* Paper, \$1.00  
a yr., 50c. additional for foreign mailing; single copy 5c. ● Item 312-B  
D 2.15: (nos.)

- 17031 v. 4, no. 5. Making world safe for diversity, pt. 2 [of address by Thomas L. Hughes, Director of Intelligence and Research, Department of State, at conference of Latin American Armed forces sponsored by U.S. Southern Command, Panama Canal Zone, June 8, 1964.] Sept. 1, 1964. 4 p. il. 4°
- 17032 v. 4, no. 6. President's tribute to U.S. Armed Forces, address by President Lyndon B. Johnson at convocation of students of National War College and Industrial College of Armed Forces at Fort Lesley J. McNair, Washington, D.C., Aug. 21, 1964. Sept. 15, 1964. 2 p. 4°

### ARMS CONTROL AND DISARMAMENT AGENCY

Washington, D.C. 20451

- 17033 Brief bibliography, arms control & disarmament. [1964.] v+33 p. narrow 8° ([Publication 22.]) \* Paper, 25c. ● Item 125-A-6  
L.C. card 64-62543 AC 1.13: Ar 5

### ARMY DEPARTMENT, Defense Dept.

Washington, D.C. 20310

AMC pamphlets. (Army Materiel Command.) ‡ ● Item 322-A  
D 101.22/3: (nos.)

- 17034 310-1. Military publications, index of AMC publications. June 1964. cover title, 51 p. 4° (AMCP 310-1.)  
L.C. card 58-60304
- 17035 706-249. Research and development of materiel, Engineering design handbook: Ammunition series, sec. 6, Manufacture of metallic components of artillery ammunition [with list of references and bibliography]. July 1964. cover title, iii+50 p. il. 4° [Prepared by Technical Writing Service, McGraw Hill Book Co. Issued with perforations.]

Field manual FM (series). D 101.20: (nos.)

- 17036 16-5. The chaplain: Aug. 1964. [1964.] cover title, ii+75 p. 4° [Supersedes FM 16-5, Apr. 15, 1958, including Change 1, Feb. 5, 1960.]  
L.C. card 64-62726
- 17037 22-5. Drill and ceremonies. July 1964. cover title, 329 p. il. 16° [Supersedes FM 22-5, Aug. 29, 1958, including Changes 1, Apr. 8, 1960, and 2, Apr. 4, 1961.] \* Paper, \$1.00.  
L.C. card 64-62727
- 17038 54-1. Logistical command, Change 1; Aug. 3, 1964. [1964.] 12 p. il. ‡

Pamphlets. ● Item 327 D 101.22: (nos.)

- 17039 27-101-160. Judge Advocate legal service. July 22, 1964. 16 p. [Issued with perforations.] ‡
- 17040 108-2. See Public Health Service. Film reference guide for medicine and allied sciences, by Federal Advisory Council on Medical Training Aids (FACMTA).
- 17041 360-208. Troop topics: You and your community. July 1964. cover title, 15 p. il. 4° ‡
- 17042 360-209. Same: Soldier's career [with list of references]. July 1964. cover title, 16 p. il. 4° [Text on p. 2 of cover.] ‡
- 17043 360-212. Same: Our citizenship. Aug. 1964. cover title, 12 p. il. 4° [Supersedes DA pam 20-78, Aug. 1954.] ‡
- 17044 360-300. [Officers' call]; Your command information program. Aug. 1964. [2]+12 p. il. 4° ‡
- 17045 360-503. See Armed Forces Information and Education, DOD pamphlet GEN-6.
- 17046 360-509. See Armed Forces Information and Education, DOD pamphlet GEN-7.
- 17047 550-27. U.S. Army area handbook for Republic of Sudan [with bibliographies; by John A. Cookson and others. Foreign Areas Studies Division, Special Operations Research Office, American University.] Aug. 1960, 2d edition, June 18, 1964. [1964.] xi+474 p. il. 2 maps.  
\* Paper, \$2.00.  
L.C. card 64-62639

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# OCTOBER 1964

- 17048 550-30. U.S. Army area handbook for Japan [with bibliographies; by George L. Harris and others, Foreign Areas Studies Division, Special Operations Research Office, American University.] Feb. 1961, 2d edition June 25, 1964. [1964.] xi+820+[1] p. 5 maps. \* Paper, \$3.25. L.C. card 64-62639
- 17049 690-21. Programed instruction [training methodology], Change 1. Aug. 13, 1964. [1]+iv+22 p. 4° †
- ROTC manual. ● Item 327-D
- 17050 145-90. Operations [with list of references]. June 1964. cover title, 396+[1] p. il. 4° [Supersedes June 30, 1958 edition.] † D 101.48:145-90  
L.C. card 64-62741
- Technical manual TM (series). ● Item 329 D 101.11: (nos.)
- 17051 5-232. Elements of surveying [with list of references]. Aug. 1964. cover title, 247 p. il. 1 tab. 4° [Supersedes TM 5-232, Oct. 1, 1953, and TB Eng 23, Aug. 15, 1960, including C. 1, Nov. 14, 1960.] \* Paper, \$1.50. L.C. card 64-62742
- 17052 10-269. General repair for canvas and webbing [with list of references]. May 1964. cover title, 77 p. il. 4° [Issued with perforations. Supersedes TM 10-269, July 20, 1948, including Change 1, Aug. 5, 1963.] † L.C. card 64-62645
- 17053 10-418. Meat processing ration issue [with list of references]. May 1964. cover title, 1+196 p. il. 4° (Air Force Department, AMF 146-6.) [Supersedes TM 10-418, Feb. 21, 1952, including Changes 6 and 7, Jan. 30, 1959 and Oct. 3, 1961, and AFM 146-4, Feb. 21, 1952, as amended. Issued with perforations.] † L.C. card 64-62725
- 17054 U.S. Army area handbook for Nigeria [with bibliographies; by John A. Cookson and others, Foreign Areas Studies Division, Special Operations Research Office, American University]. Apr. 1961, 2d edition. Mar. 1964. xviii+[2]+579 p. il. 8 pl. † ● Item 325-B  
L.C. card 64-62639 D 101.6/6: N 56

## ARMY MEDICAL SERVICE, Defense Dept. Washington, D.C. 20310

- 17055 Annual report, Surgeon General, United States Army, fiscal year 1963. [1964.] x+165 p. il. (Office of Surgeon General.) † ● Item 349-C  
L.C. card 6-35357 D 104.1: 963
- 17056 Medical Department, Army: Preventive medicine in World War II: v. 7, Communicable diseases, arthropodborne diseases other than malaria; editor in chief, John Boyd Coates, jr., editor for preventive medicine, Ebbe Curtis Hoff, assistant editor, Phebe M. Hoff. [1964.] xxiv+397 p. il. large 8° (Office of Surgeon General.) [Prepared by Historical Unit, Army Medical Service.] \* Cloth, \$4.25. ● Item 352-A  
L.C. card 55-63522 D 104.11: P 92/v.7

## ATOMIC ENERGY COMMISSION Washington, D.C. 20545

- AEC research and development reports. Y 3.At 7: 22/(letters-nos.)
- 17057 AEC-TR-6398. Proceedings of Tashkent Conference on Peaceful uses of Atomic Energy, v. 1 [with bibliographies]. [July 1964.] cover title, [11]+546 p. il. 4° (Translation series.) [Translated from publication of Publishing House of Academy of Sciences of Uzbekskoi, SSSR, Tashkent, 1961.] † Paper, \$6.50.
- 17058 RME-4546. Reconnaissance for uranium in Pernu area, Sao Paulo, Brazil [with one reference]; by John W. Gabelman. Dec. 1963 [published 1964]. 7 p. 4° (Division of Raw Materials.) [Prepared in cooperation with Comissao Nacional de Energia Nuclear de Brasil.] † Paper, 50c. ● Item 1051-C
- 17059 TID-85 (3rd rev.). Report number series used by Division of Technical Information in cataloging reports; compiled by Hannah B. Mayfield, Helen W. White. 3d revised edition. July 1963. cover title, lii+170 p. 4° (Division of Technical Information.) [Text on p. 2 of cover.] † Paper, \$2.75. Clearing-house for Federal Scientific and Technical Information, National Bureau of Standards, Springfield, Va. 22151

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## AEC research and development reports—Continued

- 17060 TID-3091 (suppl. 1). Heavy water production, annotated bibliography of selected literature; compiled by James M. Jacobs. June 1964. vi+41 p. 4° (Division of Technical Information Extension, Oak Ridge, Tenn.) † Paper, \$1.00. Clearinghouse for Federal Scientific and Technical Information, National Bureau of Standards, Springfield, Va. 22151
- 17061 TID-3561 (rev. 4). Systems for nuclear auxiliary power (SNAP), literature search; compiled by Henry D. Raleigh. June 1964. vi+70 p. 4° (Division of Technical Information.) † Paper, \$1.75. Clearinghouse for Federal Scientific and Technical Information, National Bureau of Standards, Springfield, Va. 22151
- 17062 TID-7028. Critical dimensions of systems containing U<sup>235</sup>, Pu<sup>239</sup>, and U<sup>233</sup> [with list of references; by] H. C. Paxton [and others]. June 1964. viii+145 p. il. 4° (Los Alamos Scientific Laboratory and Oak Ridge National Laboratory.) † Paper, \$1.75.
- 17063 TID-7695. Engineering with nuclear explosives, proceedings of 3d Plowshare symposium [Apr. 21-23, 1964, sponsored by University of California, Davis, Lawrence Radiation Laboratory, American Society for Engineering Education, American Nuclear Society, and Atomic Energy Commission]. [1964.] cover title, vii+396 p. il. 4° † Paper, \$4.50. Clearinghouse for Federal Scientific and Technical Information, National Bureau of Standards, Springfield, Va. 22151
- 17064 USBM-RC-1122. Quarterly metallurgical progress report, 23, Apr. 1-June 30, 1964; prepared by Department of Interior, Bureau of Mines, Albany Metallurgy Research Center, Albany, Oreg. [1964.] [1]+v+43 leaves, il. 4° † Paper, \$1.25.
- 17065 Effects of nuclear weapons [with bibliographies]; Samuel Glasstone, editor. [1957], revised edition Apr. 1962, reprinted [with changes] Feb. 1964. xvi+730 p. il. [Prepared by Defense Atomic Support Agency of Department of Defense in coordination with other cognizant governmental agencies. One illustration is colored.] \* Paper, \$3.00. ● Item 1051 L.C. card 62-61301 Y 3.At 7:2 W 37/964
- 17066 [Future energy needs and role of nuclear power, with list of references; by Gerald F. Tape, Frank K. Pittman, and Milton F. Searl.] [1964.] [1]+15 p. 4° (S-15-64.) [Delivered by Gerald F. Tape, member of Atomic Energy Commission, at 3d International Conference on Peaceful Uses of Atomic Energy, Geneva, Switzerland, Aug. 31, 1964.] † Y 3.At 7:34 T 16/2
- 17067 Today and tomorrow in nuclear power, remarks by Glenn T. Seaborg, chairman, Atomic Energy Commission at FORATOM meeting, Brussels, Belgium, Sept. 11, 1964. [1964.] 15 p. 4° (S-17-64.) † Y 3.At 7:34 Se 1/64
- Understanding the atom (series). (Division of Technical Information.) † USAEC, P.O. Box 62, Oak Ridge, Tenn. 37831
- 17068 Atomic power safety [with list of additional information; by John F. Hogerton]. [June 1964.] cover title, [6]+38 p. il. [Text on p. 2 and 3 of cover.] L.C. card 64-62700 Y 3.At 7:54 Sa 1

## BUSINESS AND DEFENSE SERVICES ADMINISTRATION, Commerce Dept. Washington, D.C. 20230

- 17069 Principal sources of statistical data on textiles & apparel [with list of references sources; prepared by Barbara A. Smith]. [Aug. 1964.] iv+19 p. 4° \* Paper, 20c. ● Item 215-E C 41.12: T 31  
L.C. card 64-62768
- 17070 Salad dressing, mayonnaise & related products, 1963; [prepared by Bart Crivella]. [Aug. 1964.] cover title, ii+13 p. il. 4° ([Food Industries Division.]) \* Paper, 25c. ● Item 215-F C 41.88: 963  
L.C. card 38-28852

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**CENSUS BUREAU, Commerce Dept.  
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Area measurement reports, GE-20 (series). [Prepared by Geography Division.] ● Item 146-B C 3.208/2: (nos.)

- 17071 4. Areas of Arizona, 1960. Aug. 1964. 7 p. 4° \* Paper, 10c.
- 17072 19. Areas of Kentucky, 1960. July 1964. 12 p. 4° \* Paper, 15c.
- 17073 39. Areas of Oregon, 1960. July 1960. 9 p. 4° \* Paper, 15c.
- 17074 42. Areas of South Carolina, 1960. Sept. 1964. 10 p. 4° \* Paper, 15c.
- 17075 44. Areas of Tennessee, 1960. July 1964. 12 p. 4° \* Paper, 15c.
- 17076 46. Areas of Utah, 1960. Aug. 1964. 7 p. 4° \* Paper, 10c.
- 17077 52. Areas of Wyoming, 1960. Aug. 1964. 7 p. 4° \* Paper, 10c.

1963 census of manufacturers: [Subject report] MC63(1)-(series). [Preprint of corresponding section of v. 1, Summary statistics. Statistics replaces those published in preliminary report, Series MC 63(P)-2.] ● Item 135

- 17078 7. Fuels and electric energy consumed in manufacturing industries, 1962. [July 1964.] v+75 p. 4° \* Paper, 50c. C 3.24/12: 963/7

1963 census of transportation: Passenger transportation survey, advance and/or preliminary reports.

- 17079 1. National travel, 1st 6 months of 1963. Apr. 29, 1964. 20 p. il. 4° (Preliminary report TC 63 (P)-P1.) † Paper, 25c. C 3.233/2: TC 63(P)-P1
- 17080 2. National travel, summer months of 1963. July 20, 1964. 19 p. il. 4° (Advance report TC 63(A)-P2.) † Paper, 25c. C 3.233/2: TC 63(A)-P2
- 17081 3. National travel, 4th quarter and annual summary. Sept. 1964. 19 p. il. 4° (Advance report TC 63 (P)-P3.) † Paper, 25c. C 3.233/2: TC 63(P)-P3
- Truck inventory and use survey, advance and/or preliminary reports.
- 17082 1. North Carolina, Apr. 1, 1963. Aug. 1964. 14 p. 4° (Preliminary report TC 63(P)-T1.) † Paper, 10c. C 3.233/2: TC 63(P)-T 1
- 17083 3. Massachusetts [Apr. 1, 1963]. Sept. 1964. 14 p. il. 4° (Advance report TC63(A)-T3.) Paper, 20c. C 3.233/2: TC 63(A)-T3

Construction reports: Residential alterations and repairs, C 50 (series).

- 17084 9. Expenditures on residential additions, alterations, maintenance and repairs, and replacements, 1963, annual report: pt. 1, Expenditures on all residential properties. Aug. 1964. 19 p. 4° † Paper, 25c. C 3.215/8: 9/pt.1  
L.C. card A 64-7676

Current housing reports: Series H-111, Housing vacancies. \* Paper, \$1.00 (including Series H-111 and H-121 for one year), 25c. additional for foreign mailing; single copy, each 20c. ● Item 141-A

- 17085 37. Vacant housing units in United States, 2d quarter 1964. Aug. 1964. 12 p. 4° C 3.215: H-111/37

— Series H-121, Housing characteristics. \* Paper, \$1.00 a yr. (including Series H-111 and H-121), 25c. additional for foreign mailing; single copies vary in price. ● Item 141-A C 3.215: H-121/(nos.)

- 17086 10. Households with television sets in United States, May 1964. Aug. 1964. 4 p. 4° \* Paper, 20c.
- 17087 11. Characteristics of housing units classified by 1959 income of occupants; [prepared by Leonard J. Norry]. Aug. 1964. cover title, 55 p. 4° \* Paper, 35c. C 3.215: H-121/11  
L.C. card A 64-7677

- 17088 Current industrial reports: Aircraft propellers, Jan.-June 1964. Sept. 8, 1964. [2] p. 4° (Series M37E(64)-1.) † Paper, 25c. C 3.158: M 37 E(64)-1

- 17089 — Brassieres, corsets, and allied garments, 1963. Sept. 9, 1964. 5 p. 4° (Series M23J(63)-1.) † Paper, 25c. C 3.158: M 23 J (63)-1

- 17090 — Change sheet, Air-conditioning and refrigeration equipment, 1962. Aug. 31, 1964. 1 p. 4° (Series M35M(62)-1.) † C 3.158: M35M(62)-1/ch.

- 17091 — Change sheet, Farm machines and equipment, 1963. Sept. 21, 1964. 1 p. 4° (Series M35A(63)-5.) † C 3.158: M35A(63)-5/ch.

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- 17092 — Communication equipment, 1963. Aug. 28, 1964. 2 p. 4° (Series BDSAF-363A (63)-1.) [Prepared in cooperation with Business and Defense Services Administration.] † Paper, 25c.  
C 3.158: BDSAF-363A (63)-1
- 17093 — Construction machinery, summary for 1963. Sept. 15, 1964. 13 p. 4° (Series M35D (63)-5.) † Paper, 25c.  
C 3.158: M35D (63)-5
- 17094 — Home-type radio receivers and television sets; automobile radios, phonographs and record player attachments, 1963. Sept. 9, 1964. 3 p. 4° (Series M36M (63)-1.) † Paper, 25c.  
C 3.158: M36M (63)-1
- 17095 — Knit cloth for sale, 1963. Sept. 16, 1964. 4 p. 4° (Series M22K (63)-1.) † Paper, 25c.  
C 3.158: M22K (63)-1
- 17096 — Machine tools with numerical and prerecorded motion program controls, 1963. Aug. 28, 1964. 3 p. 4° (Series BDSAF-630 (63)-1.) [Prepared in cooperation with Business and Defense Services Administration.] † Paper, 25c.  
C 3.158: BDSAF-630 (63)-1
- 17097 — Man-made fibers broad woven goods, summary for 1963. Sept. 17, 1964. 6 p. 4° (Series M22T.2 (63)-5.) † Paper, 25c.  
C 3.158: M22T.2 (63)-5
- 17098 — Motors and generators, 1963. Sept. 9, 1964. 9 p. 4° (Series M36H (63)-1.) [Change sheet, dated Sept. 30, 1964, 1 p., was issued also.] † Paper, 25c.  
C 3.158: M36H (63)-1
- 17099 — Refractories, summary for 1963; prepared by Industry Division, Non-metallic Minerals Section. Aug. 28, 1964. 5 p. 4° (Series M32C (63)-13.) † Paper, 25c.  
C 3.158: M32C (63)-13
- 17100 — Salad dressing, mayonnaise, and related products, 1963. Aug. 31, 1964. 3 p. 4° (Series M20F (63)-1.) [Prepared in cooperation with Business and Defense Services Administration.] † Paper, 25c.  
C 3.158: M20F (63)-1
- 17101 — Supply and distribution of domestic and foreign cotton in United States (preliminary), season of 1963-64. Aug. 21, 1964. 2 p. 4° (Supplement of series M22-P.) †  
C 3.158: M22P/supp.-3
- 17102 — Switchgear, switchboard apparatus, relays, and industrial controls, 1963. Sept. 1, 1964. 5 p. 4° (Series M36A (63)-1.) † Paper, 25c.  
C 3.158: M36A (63)-1
- 17103 — Wool broad-woven goods, summary for 1963; [prepared by Robert J. Nealon with assistance of Evelyn O. Denny]. Aug. 28, 1964. 3 p. 4° (Series M22T.3 (63)-5, Industry Division.) † Paper, 25c.  
C 3.158: M22T.3 (63)-5
- Current population reports: Series P-20, Population characteristics. \* Paper, \$4.00 (including Series P-20, P-23, P-25, P-27, P-28, summaries, P-60, and P-65 for one year), \$1.25 additional for foreign mailing; single copy, each 15c.
- 17104 131. Growth of metropolitan areas in United States, 1960-63. Sept. 4, 1964. 4 p. 4° \* Paper, 15c. ● Item 142-C  
C 3.186: P-20/131
- Series P-25, Population estimates. \* Paper, \$4.00 (including Series P-20, P-23, P-25, P-27, P-28 summaries, P-60, and P-65 for one year), \$1.25 additional for foreign mailing; single copy, 15c.
- 17105 289. Estimates of population of States, July 1, 1963, with preliminary estimates for July 1, 1964. Aug. 31, 1964. 14 p. il. 4° † Paper, 15c. ● Item 142-C  
C 3.186: P-25/289
- Series P-28. Special censuses. C 3.186: P-28/(nos.)
- 17106 1373. Special census of West Covina, Calif., May 6, 1964. Aug. 13, 1964. 10+ [1] p. il. 4° † Paper, 10c.
- 17107 1374. Special census of Fort Smith, Ark., June 1, 1964. Aug. 19, 1964. 8 p. 4° † Paper, 10c.

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- 17108 7. Buying intentions for automobiles, housing, and selected household equipment, week of July 19, 1964. Aug. 25, 1964. 11 p. il. 4° ● Item 142-C  
 C 3.186: P-65/7
- 17109 Eight series on manufacturers' orders and inventories, descriptions and procedures [with list of references; by John Musgrave and John Kuntz]. [1964.] [2]+5 p. 4° ([Office of Chief Economic Statistician.]) [Reprinted from Business cycle developments, July 1964.] †  
 C 3.226/a: M 319
- 17110 Facts about 1964 census of agriculture. [1964.] [8] p. il. narrow 8° †  
 C 3.2: Ag 8/7

**Governmental finances in United States, 1963, G-GF63-(series).**

- 17111 1. Summary of governmental finances in 1963. Sept. 1964. 29 p. il. 4° (Governments Division.) † Paper, 25c.  
 L.C. card A 59-10097 C 3.191: 963/1
- 17112 Inventory of machine-readable data and selected special tabulations, available from Bureau of Census. [1964.] 6+65-92 p. [Preprinted from Bureau of Census catalog, Jan.-June 1964.] † C 3.163/3 a: In 89/2
- 17113 Statistical abstract of United States, 1964 [with guides to sources of statistics and State statistical abstracts]. 85th annual edition. [1964.] [1]+xii+1041 p. il. [Prepared under direction of Edwin D. Goldfield, chief, Statistical Reports Division. Also issued as H. doc. 185, 88th Cong., 2d sess.] \* Cloth, \$3.75. ● Item 150.  
 L.C. card 4-18089 C 3.134: 964

**U.S. census of population, 1960: Selected area reports, final report PC (3)-(series).** (Prepared under supervision of Howard G. Brunsman, chief, Population Division.)

- 17114 1E. Type of place, demographic, social, and economic data for States, by urban-rural and metropolitan-nonmetropolitan residence. [1964.] xxii+459 p. il. 4° \* Paper, \$3.75. ● Item 159  
 L.C. card A 61-9570 C 3.223/10: 960/v.3/pt.1 E

**United States census of population, 1960: Graphic pamphlets GP (series).**  
 ● Item 154

- 17115 60-1. Our growing population. [June 1961, revised July 1964.] [1964.] [2]+12+[2] p. il. [From detailed reports on number of inhabitants, series PC (1)-A, of 1960.] \* Paper, \$5.00 per 100; single copy, 10c.  
 L.C. card A 61-9481 C 3.223/14: 60-1/2

## CHILDREN'S BUREAU, Health, Education, and Welfare Dept. Washington, D.C. 20201

- 17116 Children's unit in mental hospital experiments with therapeutic use of student volunteers; [by] Helen Reinherz. [1964.] p. 137-142, il. 4°  
 [From children, July-Aug. 1964.] † FS 14.109/a: T 34
- Publications.** ● Item 453 FS 14.111: (nos.)
- 17117 407. Mental health in child health conference, evaluation of attitude study project of New York City Health Department; [prepared by Barbara Levenson, Marvin Belkin and Ruth Moskowitz]. 1964. ix+108 p. \* Paper, 40c.  
 L.C. card HEW 64-102
- 17118 409. When teenagers take care of children, guide for baby sitters: [by Ivor Kraft]. [1964.] [3]+60 p. il. 12° ([Public Health Service publication 1179.])  
 [Prepared in cooperation with Division of Accident Prevention, Public Health Service. Text on p. 2 of cover.] \* Paper, 25c.  
 L.C. card HEW 64-101
- 17119 423. Your teenage children and smoking. [1964.] cover title, [1]+12+[1] p. narrow 8° [Includes list of books that will give medical facts.] \* Paper, 15c.  
 L.C. card HEW 64-106

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- 17120 Research relating to children, studies in progress on growth and development, personality and adjustment, educational process, exceptional children, child in family, social, economic, and cultural influences, health services and surveys, social services, Feb. 1963-Feb. 1964. [1964.] iv+124 p. 4° (Bulletin 17; Clearinghouse for Research in Child Life.) \* Paper, 75c. ● Item 453-A  
L.C. card 52-60018 FS 14.114: 17

Statistical series. †

- 17121 74. Crippled children's program, statistical highlights, 1962. 1964. iv+16 p. il. 4°  
L.C. card HEW 64-117 FS 14.113: 74

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- 17122 Address by Robert T. Murphy, Vice Chairman, Civil Aeronautics Board, before quarterly regional meeting, Association of Local Transport Airlines, Jackson Hole, Wyo., Sept. 11, 1964. [1964.] 7 p. 4° †  
C 31.215: M 95/8
- 17123 Civil Aeronautics Board reports: v. 34, Economic and safety enforcement cases of Civil Aeronautics Board, June-Dec. 1961. [1964.] xxii+1122 p. il. \* Cloth, \$3.75. ● Item 179  
L.C. card 42-38246 C 31.211: 34
- 17124 Regulations of Civil Aeronautics Board, July 17, 1964; [new and revised pages]. [1964.] [8] p. 4° [Includes transmittal sheet 7. Issued in loose-leaf form.] \* Paper, \$4.00 (including basic book and supplementary service for an indefinite period); \$1.00 additional for foreign mailing. ● Item 186  
C 31.206/7: 963/trans.7
- 17125 — July 29, 1964; [new and revised pages.] [1964.] [16] p. 4° [Includes transmittal sheet 8. Issued in loose-leaf form.] \* Paper, \$4.00 (including basic book and supplementary service for an indefinite period), \$1.00 additional for foreign mailing. ● Item 186  
C 31.206/7: 963/trans.8
- 17126 — Aug. 21, 1964; [new and revised pages]. [1964.] [20] p. 4° [Includes transmittal sheet 9. Issued in loose-leaf form.] \* Paper, \$4.00 (including basic book and supplementary service for an indefinite period); \$1.00 additional for foreign mailing. ● Item 186  
C 31.206/7: 963/trans.9

### CIVIL DEFENSE OFFICE (Army), Defense Dept.

Washington, D.C. 20310

FG (series). † ● Item 320-B-3

- 17127 F-1.2. National directory of qualified fallout shelter analysts. July 1964. v+151 p. [Supersedes FG-F-1.2, Apr. 1963, and FG-F-1.2 supplement, Oct. 1963, which should not be used.]  
L.C. card 62-61084 D 13.8/8: F-1.2/2

[Handbook] H (series).

- 17128 11-1. Meetings that move to inform, to stimulate, to involve, to motivate, guide to successful meetings on civil defense. Aug. 1964. cover title, 40+[1] p. il. 4° [Contains material to implement publication H-11, Community and family service for civil defense. Includes lists of available informational materials. Issued with perforations.] † Public Information Office, Office of Civil Defense, Department of Army, OSA., Washington, D.C. 20310 ● Item 857-D-10  
L.C. card 64-62735 D 13.8/3: 11-1

### CIVIL RIGHTS COMMISSION

- 17129 Civil rights digest, special bulletin, summary of Civil rights act of 1964. Aug. 1964. [5] p. 4° † ● Item 288-A CR 1.2: C 49/2

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## CIVIL SERVICE COMMISSION

Washington, D.C. 20415

- 17130 Amendment to announcement 252B and supplements, pt. A and pt. B, positions in aero-space technology for duty with National Aeronautics and Space Administration. [Sept. 1, 1964.] 2 p. 4° [Supersedes amendment of May 18, 1962.] † CS 1.26: 960/252 B/amdt.-4
- 17131 Amendment to announcements 65-B, 93-B, and 291-B, printer (slug machine operator), cylinder pressman, offset duplicating press operator, lithographic offset pressman. Sept. 8, 1964. 1 p. oblong 48° † CS 1.26: 956/65-B/amdt.-3
- 17132 Cooperative work-study positions, opportunities for college students enrolled in cooperative work-study programs in mathematics, engineering, and physical sciences for work in various Federal agencies in Washington, D.C., area, salaries, GS-3, \$75 a week [and] GS-4, \$81 a week, announcement 336. July 28, 1964. [2] p. 4° [Closing date Dec. 1, 1964.] † ● Item 292 CS 1.26: 964/336
- 17133 Current Federal examination announcements, AN 2279, issue 161, Sept.-Oct. 1964. [2] p. f°, folded into narrow 8° size. † ● Item 292 CS 1.28: 2279/161
- 17134 — AN 2279, supp. A to issue 161, Sept.-Oct. 1964. [1964.] 1 p. oblong 48° † ● Item 292 CS 1.28: 2279/161/supp.A
- Federal employee facts. ● Item 293-A
- 17135 1. Incentive awards program. July 1964. [6] p. 1l. narrow 8° \* Paper, 5c. CS 1.59: 1/3
- 17136 Federal fund-raising manual, Change 2; June 1964. [1964.] [16] p. 4° (Office of Chairman.) [Last page is left blank to be used for notes. Issued in loose-leaf form.] \* Paper, \$1.50 (including basic manual and supplementary material for an indefinite period); 50c. additional for foreign mailing. ● Item 296-B CS 1.7/5: 963/ch.2
- 17137 Local and regional civil service examinations offering best job opportunities, AN 2280 [issue 109]; Sept.-Oct. 1964. [1964.] 2 p. oblong f° folded into narrow 8° size. † ● Item 292 CS 1.28: 2280/109
- Pamphlet.
- 17138 65. Equal opportunity in Federal employment. July 1964. [6] p. narrow 8° † ● Item 299 CS 1.48: 65
- Personnel methods series.
- 17139 16. Conducting hearings on employee appeals, guide for hearing committee members [with bibliography; prepared by Program Systems and Instructions Division, Bureau of Programs and Standards]. [Revised edition.] July 1964. vi+27 p. \* Paper, 20c. ● Item 300-B CS 1.58: 16/2  
L.C. card 64-62487
- 17140 Places where civil service examinations are held, AN 2300, Aug. 1964. [1964.] 2 p. 4° † CS 1.28: 2300/23
- 17141 Sample questions, AN 3635; July 1964. [1964.] [2] p. 1l. 4° † ● Item 292 CS 1.28: 3635
- 17142 U.S. Civil Service Commission announces examination for assistant State veterans employment representative, \$8,650 a year (grade GS-11), for duty at Richmond, Va., for duty in Veterans Employment Service, Bureau of Employment Security, Department of Labor, announcement B-43-1(64). Sept. 15, 1964. 3 p. 4° (Code GS-301-11.) [Closing date Sept. 30, 1964.] † ● Item 292 CS 1.26/4: 964/B-43-1
- 17143 United States Civil Service Commission announces examination for clerical positions, \$3,680 and \$4,005 a year (grades GS-2 and GS-3) for positions in Washington, D.C., area, announcement 339. Sept. 8, 1964. 2 p. 4° [Closing date Oct. 5, 1964.] † ● Item 292 CS 1.26: 964/339

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# GOVERNMENT PUBLICATIONS

- 17144 United States Civil Service Commission announces examination for labor management relations examiner with National Labor Relations Board throughout United States, \$7,220, \$8,650, and \$10,250 a year (grades GS-9, GS-11, and GS-12), apply to Executive Secretary, Board of Civil Service Examiners, National Labor Relations Board, Washington, D.C. 20570, announcement 340B. Sept. 8, 1964. 6 p. 4° [No closing date.]  
† ● Item 292 CS 1.26: 964/340B
- 17145 United States Civil Service Commission announces examination for operations research analyst, \$7,710-\$16,460 a year (grades GS-9 to GS-15), announcement 193B. Apr. 21, 1959, revised Aug. 1964. [1964.] 6 p. 4° (Code: GS-015-9/15.) [No closing date.] † Apply to Executive Secretary, Board of Civil Service Examiners, Bolling Air Force Base, Washington, D.C., 20332. ● Item 292 CS 1.26: 959/193 B/rev.-5
- 17146 United States Civil Service Commission announces examination for securities investigator, \$7,220 and \$8,650 a year (grades GS-9 and GS-11), announcement 248B. Nov. 1, 1960, revised Sept. 1964. [1964.] 8 p. narrow 8° [No closing date.] † ● Item 292 CS 1.26: 960/248 B/rev.-2
- 17147 United States Civil Service Commission announces examination for television operations and maintenance technicians, \$3.61 an hour (\$7,508.80 a year) to \$5.28 an hour (10,982.40 a year), apply to Executive Secretary, Board of U.S. Civil Service Examiners, United States Information Agency, Washington, D.C., 20547, announcement 341B. Sept. 22, 1964. 4 p. 4° [Closing date Dec. 22, 1964.] † ● Item 292 CS 1.26: 964/341 B

## COAST AND GEODETIC SURVEY, Commerce Dept. Washington, D.C. 20230

- 17148 Magnetic results South Pole traverse 1962-63 [with list of references; by] D. M. Perkins. 1964. [3]+10 p. il. 4° [For official distribution.] †  
C 4.2: M 27/14/962-63  
Magnetograms and hourly values MHV-(series). [For official distribution.] †
- 17149 Co61. College, Alaska, 1961 [with list of references]. 1963. [2]+166 p. il. large 8°  
L.C. card 55-61062 C 4.40/2: Co61
- 17150 State plane coordinate systems interpretative statement, report of Council of State Governments. Reprinted 1964 with revisions. [1]+48-56 p. [From General report on suggested State war and postwar legislation for 1945.] †  
C 4.2: P 69/4
- 17151 United States coast pilot 4: Atlantic Coast, Cape Henry to Key West, 7th (Mar. 21, 1964) edition. 1964. v.+204 p. il. 4° [Corrected through Notice to mariners 12, 1964.] † Cloth, \$2.50. ● Item 203  
L.C. card 48-47176 C 4.6/1: 4/7

## COAST GUARD, Treasury Dept. Washington, D.C. 20226

- 17152 Aids to navigation manual. 1964. [1]+vi+[44] p. il. 4° (CG-222.) [Supersedes CG-222 (1953 edition). Issued with perforations.] †  
● Item 934-A  
L.C. card 64-62666 T 47.8/3: N 22
- 17153 Aids to navigation manual, app. A. 1964. cover title, iii+27 p. 4° (CG-222.) [Issued with perforations.] † ● Item 934-A  
L.C. card 64-62666 T 47.8/3: N 22/app.A
- 17154 Rules and regulations for bulk grain cargoes; July 1, 1964. 1964. viii+20 p. il. (CG-266.) [Title 46, Code of Federal regulations, pt. 144. Replaces edition of Mar. 1, 1962.] † ● Item 943  
L.C. card 53-60889 T 47.8: G76/964

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- 17155 Security of vessels and waterfront facilities; July 1, 1964. 1964. viii+59 p. 4° (CG-239.) [Title 33, Code of Federal regulations pts. 6, 121-122, 124-126. Replaces edition of Aug. 1, 1961.] ‡ ● Item 943  
L.C. card 52-61478 T 47.8: V 63/7/964

COMMERCE DEPARTMENT  
Washington, D.C. 20230

NOTE.—Requests to the Commerce Department for publications should include the Comm—DC—number if given in the entry.

- 17156 Address by Secretary of Commerce Luther H. Hodges prepared for delivery to St. Paul Chamber of Commerce and St. Paul Kiwanis Club, St. Paul, Minn., Sept. 10, 1964. [1964.] 5 p. 4° (Comm-DC-20152.) ‡  
C 1.18: H 66/184
- 17157 Address by Thomas G. Wyman, Deputy Assistant Secretary for Domestic and International Business, Department of Commerce, prepared for delivery to Mid-Ohio Valley Regional Conference on Industrial Modernization, Cincinnati, Ohio, Feb. 26, 1964. [1964.] 8 p. 4° (Comm-DC-15462.) ‡  
C 1.18: W 98
- 17158 Facts about Community Relations Service as provided under 1964 Civil rights law. Aug. 1964. [1]+10 p. il. narrow 8° ‡ C 1.2: 73-12
- 17159 Remarks by Roy L. Morgan, Director, Office of Field Service, Department of Commerce, prepared for delivery in presenting the President's E award for excellence in exporting to Bacharach Industrial Instrument Company at award ceremonies, Pittsburgh, Pa., Sept. 14, 1964. [1964.] 5 p. 4° (Comm-DC-54085.) ‡  
C 1.18: M 82/14
- 17160 Remarks by Roy L. Morgan, Director, Office of Field Services, Department of Commerce, prepared for delivery in presenting the President's E award for excellence in exporting to Sierra Tale and Chemical Company, at award ceremonies, South Pasadena, Calif., Sept. 11, 1964. [1964.] 5 p. 4° (Comm-DS-54084.) ‡  
C 1.18: M 82/13
- 17161 Remarks by Under Secretary of Commerce, Franklin D. Roosevelt, jr., prepared for delivery at launching of S.S. Mormacaltair, Pascagoula, Miss., Aug. 20, 1964. [1964.] 3 p. 4° (Comm-DC-20108.) ‡  
C 1.18: R 67/16
- 17162 Remarks by Under Secretary of Commerce Franklin D. Roosevelt, jr., prepared for delivery before meeting of younger lawyers at Federal Bar Association convention, Sept. 9, 1964. [1964.] 6 p. 4° (Comm-DC-20149.) ‡  
C 1.18: R 67/18
- 17163 Remarks prepared for delivery by Under Secretary of Commerce, Franklin D. Roosevelt, jr. before Hertford County Economic Survey Committee at Chowan College, Murfreesboro, N.C., Aug. 18, 1964. [1964.] 4+[1] p. 4° ‡  
C 1.18: R 67/17
- 17164 United States Department of Commerce publications [catalog and index], 1963 supplement; [compiled by Evelyn M. Farmer with assistance of bureau representatives]. 1964. [2]+64 p. (Office of Publications.) \* Paper, 25c. ● Item 128  
L.C. card 52-60731 C 1.2: P 96/supp. 963

COMMUNITY RELATIONS SERVICE, Commerce Dept.  
Washington, D.C. 20230

NOTE.—The Community Relations Service was established in the Department of Commerce by Public law 352, 88th Congress, 2d session, approved July 2, 1964.

- 17165 Address by Arthur H. Dean, chairman, President Johnson's National Citizens' Committee for Community Relations before National Citizens' Committee Conference, Washington, D.C., Department of State, Aug. 18, 1964. [1964.] 4 p. 4° (Comm-DC-20099.) ‡  
C 50.9: D 34

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# GOVERNMENT PUBLICATIONS

- 17166 Address by Leroy Collins, Director, Community Relations Service, prepared for delivery to National Citizens' Committee for Community Relations, at Department of State, Washington, D.C., Aug. 18, 1964. [1964.] 6 p. 4° † C 50.9: C 69/3

## CONGRESS

- 17167 United States code, 1958 edition, cumulative supp. 5, containing general and permanent laws of United States enacted during 86th and 87th Congresses and 88th Congress, 1st session, Jan. 7, 1959-Jan. 6, 1964: prepared by Committee on Judiciary of House of Representatives. ● Item 991  
v. 4. Tables and index. 1964. xxv+[1]+2905-3803 p. large 8° \* Fabrikoid, \$5.75.  
L.C. card 59-61498 Y 4.J89/1: Un 3/3/958/supp. 5/v. 4

## Laws

NOTE.—The Federal laws are first published separately and in this form are known as "slip laws". Later, these laws are compiled, edited, indexed, and published in the volumes of the Statutes at large.

Private laws, 88th Congress. † House or Senate Document Rooms, Capitol.

- 17168 255. H.R. 2735, act for relief of Ligia Pauline Jimenez. Approved July 14, 1964. 1 p.  
17169 256. H.R. 2737, act for relief of Pedro Aguinaldo. Approved July 14, 1964. 1 p.  
17170 257. H.R. 6385, act for relief of Wolfgang Seidl. Approved July 14, 1964. 1 p.  
17171 258. H.R. 6473, act for relief of Mr. and Mrs. Loward D. Sparks. Approved July 14, 1964. 1 p.  
17172 259. H.R. 10407, act for relief of Keith Hills. Approved July 14, 1964. 1 p.  
17173 260. H.R. 4811, act for relief of Mrs. Marjorie Curtis. Approved July 21, 1964. 1 p.  
17174 261. H.R. 7346, act for relief of certain officers and employees of Public Health Service. Approved Aug. 1, 1964. 1 p.  
17175 262. H.R. 8415, act for relief of Keith K. Lund. Approved Aug. 1, 1964. 1 p.  
17176 263. H.R. 8746, act for relief of Roger A. Ross. Approved Aug. 1, 1964. 1 p.  
17177 264. H.R. 9280, act for relief of Donald J. Kent. Approved Aug. 1, 1964. 1 p.  
17178 265. H.R. 9615, act for relief of John A. Peralta. Approved Aug. 1, 1964. 1 p.  
17179 266. H.R. 10066, act for relief of Joe C. Oden. Approved Aug. 1, 1964. 1 p.  
17180 267. H.R. 1742, act for relief of Wetzel County Hospital, New Martinsville, W. Va. Approved Aug. 4, 1964. 1 p.  
17181 268. H.R. 3220, act for relief of Hugh M. Brady. Approved Aug. 4, 1964. 1 p.  
17182 269. H.R. 5814, act for relief of Norman R. Tharp. Approved Aug. 4, 1964. 1 p.  
17183 270. H.R. 6442, act for relief of Jasper E. Tate. Approved Aug. 4, 1964. 1 p.  
17184 271. H.R. 6882, act for relief of Maloney Brothers Nursery Co., Inc. Approved Aug. 4, 1964. 1 p.  
17185 272. H.R. 8184, act for relief of Mr. and Mrs. Blanton Darbro. Approved Aug. 4, 1964. 1 p.  
17186 273. H.R. 8709, act for relief of Eugene R. Wooster, jr. Approved Aug. 4, 1964. 1 p.  
17187 274. H.R. 9199, act for relief of Stanley L. Harney. Approved Aug. 4, 1964. 1 p.  
17188 275. H.R. 9764, act for relief of Anne S. Henkel. Approved Aug. 4, 1964. 1 p.  
17189 276. H.R. 3757, act for relief of Witold A. Lanowski. Approved Aug. 7, 1964. 1 p.  
17190 277. H.R. 8479, act for relief of Georgette D. Caskie. Approved Aug. 7, 1964. 1 p.  
17191 278. S. 858, act for relief of Miladin Kijajin. Approved Aug. 13, 1964. 1 p.  
17192 279. S. 1015, act for relief of Edith Annikki McRae. Approved Aug. 13, 1964. 1 p.  
17193 280. S. 2225, act for relief of Christiane Antoine Bronas. Approved Aug. 13, 1964. 1 p.  
17194 281. H.R. 5302, act to direct Secretary of Interior to convey certain lands in Newton area, Calif., to Clarence J. Wilder. Approved Aug. 13, 1964. 1 p.  
17195 282. H.R. 6007, act to permit vessel SC-1473 to engage in fisheries. Approved Aug. 13, 1964. 1 p.  
17196 283. S. 31, act for relief of Sonja Dolata. Approved Aug. 14, 1964. 1 p.  
17197 284. S. 633, act for relief of Michelle Su Zehr (Lim Myung Im). Approved Aug. 14, 1964. 1 p.  
17198 285. S. 2088, act for relief of Tomoe Ishikawa Westley. Approved Aug. 14, 1964. 1 p.  
17199 286. S. 2219, act for relief of Helen Marghitsa Georgalas. Approved Aug. 14, 1964. 1 p.  
17200 287. S. 2336, act for relief of John Richard Dolby. Approved Aug. 14, 1964. 1 p.

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|-------|--|
| 17201 | 288. S. 2436, act for relief of Mihailo Radosavljevic. Approved Aug. 14, 1964. 1 p.  |
| 17202 | 289. H.R. 4088, act for relief of Industrial Tractor Parts Company, Inc. Approved Aug. 14, 1964. 1 p.  |
| 17203 | 290. H.R. 4871, act for relief of Glenn C. Deits and others. Approved Aug. 14, 1964. 1 p.  |
| 17204 | 291. H.R. 9372, act to remove cloud on title of certain property owned by Wilmer Allers and Jane B. Allers, both of Malin, Oreg. Approved Aug. 14, 1964. 1 p.  |
| 17205 | 292. H.R. 11064, act to provide for conveyance of certain real property of United States situated in Virginia. Approved Aug. 14, 1964. 1 p.  |
| 17206 | 293. H.R. 11425, act to provide for conveyance of 10 acres of federally owned land on White Earth Reservation to Minnesota Annual Conference of Methodist Church, and for other purposes. Approved Aug. 20, 1964. 1 p.                 |
| 17207 | 294. H.R. 1174, act for relief of Elfriede Unterholzer Sharble. Approved Aug. 22, 1964. 1 p.   |
| 17208 | 295. H.R. 1451, act for relief of Frank Mramor. Approved Aug. 22, 1964. 1 p.   |
| 17209 | 296. H.R. 11652, act to exempt from taxation certain property of United Supreme Council, 33d Degree, Ancient and Accepted Scottish Rite of Freemasonry, Southern Jurisdiction, Prince Hall Affiliation. [Approved Aug. 22, 1964.] 2 p. |
| 17210 | 297. S. 284, act for relief of Ethel R. Loop, widow of Carl R. Loop. Approved Aug. 30, 1964. 1 p.  |
| 17211 | 298. S. 2288, act for relief of John J. Feeney. Approved Aug. 30, 1964. 1 p.   |
| 17212 | 299. S. 2944, act for relief of Greater Southeast Community Hospital, Foundation, Inc. Approved Aug. 30, 1964. 1 p.  |
| 17213 | 300. H.R. 1172, act for relief of Rolando de la Torre Arceo and John Anthony Arceo. Approved Aug. 30, 1964. 1 p.   |
| 17214 | 301. H.R. 1262, act for relief of Maisie Magdalene Lim Ketchens. Approved Aug. 30, 1964. 1 p.  |
| 17215 | 302. H.R. 2324, act for relief of Rosa Stefane Ratajczak. Approved Aug. 30, 1964. 1 p.   |
| 17216 | 303. H.R. 4361, act for relief of estate of Paul F. Ridge. Approved Aug. 30, 1964. 1 p.  |
| 17217 | 304. H.R. 5154, act for relief of Wilfredo Lacar de Leon. Approved Aug. 30, 1964. 1 p.   |
| 17218 | 305. H.R. 5155, act for relief of Mrs. Guiseppa D'Aquanno, Marie D'Aquanno, and Benedicto D'Aquanno. Approved Aug. 30, 1964.   |
| 17219 | 306. H.R. 6034, act for relief of Robert L. Johnston. Approved Aug. 30, 1964. 1 p.   |
| 17220 | 307. H.R. 6040, act for relief of Chrisoula Baker. Approved Aug. 30, 1964. 1 p.  |
| 17221 | 308. H.R. 6578, act for relief of Mrs. Cesira Duddy. Approved Aug. 30, 1964. 1 p.  |
| 17222 | 309. H.R. 7617, act for relief of Vula Roed. Approved Aug. 30, 1964. 1 p.  |
| 17223 | 310. H.R. 8201, act for relief of Jack J. Shea, United States Air Force. Approved Aug. 30, 1964. 1 p.  |
| 17224 | 311. H.R. 8399, act for relief of Mrs. Edeltraud Englisch Franklin. Approved Aug. 30, 1964. 1 p.   |
| 17225 | 312. H.R. 9150, act for relief of Leonor do Rozario de Medeiros (Leonor Medeiros). Approved Aug. 30, 1964. 1 p.  |
| 17226 | 313. H.R. 9290, act for relief of Danny Hiromi Oyama. Approved Aug. 30, 1964. 1 p.   |
| 17227 | 314. H.R. 9519, act for relief of Young Soon Kim and Tai Ung Choi. Approved Aug. 30, 1964. 1 p.  |
| 17228 | 315. H.R. 9561, act for relief of Moni Parvanoff Floroff. Approved Aug. 30, 1964. 1 p.   |
| 17229 | 316. H.R. 10216, act for relief of Miguel de Socarraz. Approved Aug. 30, 1964. 1 p.  |
| 17230 | 317. H.R. 4364, act to provide for free entry of certain articles imported for use of certain universities. Approved Aug. 31, 1964. 1 p.   |
| 17231 | 318. H.R. 5941, act for relief of Mrs. Julian A. Erskine. Approved Aug. 31, 1964. 1 p.   |
| 17232 | 319. H.R. 7138, act for relief of Saint Francis Levee District, Ark. Approved Aug. 31, 1964. 1 p.  |
| 17233 | 320. H.R. 9560, act for relief of Lim Sam Soon. Approved Aug. 31, 1964. 1 p.   |
| 17234 | 321. H.R. 4766, act for relief of Boren Clay Products Co. Approved Sept. 1, 1964. 1 p.   |
| 17235 | 322. H.R. 1136, act to compensate certain parties for loss of their leasehold interests in lands taken by United States in connection with Red Rock Reservoir project. Approved Sept. 2, 1964. 1 p.                                    |
| 17236 | 323. H.R. 1213, act for relief of World Games, Inc. Approved Sept. 2, 1964. 1 p.   |
| 17237 | 324. H.R. 2215, act for relief of E. A. Rolfe, jr. Approved Sept. 2, 1964. 1 p.  |
| 17238 | 325. H.R. 7088, act for relief of Joseph Di Ciccio. Approved Sept. 2, 1964. 1 p.   |
| 17239 | 326. S. 1875, act for relief of Thomas M. Talley. Approved Sept. 7, 1964. 1 p.   |
| 17240 | 327. S. 2170, act for relief of Mary Lane Laycock. Approved Sept. 7, 1964. 1 p.  |

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# GOVERNMENT PUBLICATIONS

## Public laws, 88th Congress. • Item 575

NOTE.—Public laws in slip form in the first prints may be obtained from the Superintendent of Documents, Washington, D.C., 20402, at a subscription price of \$12.00 per session, \$2.00 additional for foreign mailing; single copies vary in price.

- 17241 382. H.R. 287, act to amend title 2 of Social security act to include Nevada among those States which are permitted to divide their retirement systems into 2 parts for purposes of obtaining social security coverage under Federal-State agreement. Approved July 23, 1964. 1 p. \* Paper, 5c.
- 17242 383. H.R. 6237, act to amend sec. 503 of Federal property and administrative services act of 1949, as amended, to authorize grants for collection, reproduction, and publication of documentary source material significant to history of United States, and for other purposes. [Approved July 28, 1964.] 2 p. \* Paper, 5c.
- 17243 384. H.R. 393, act to make retrocession to Massachusetts of jurisdiction over certain land in vicinity of Fort Devens, Mass. Approved July 28, 1964. 1 p. \* Paper, 5c.
- 17244 385. H.R. 10736, act to authorize Secretary of Navy to adjust legislative jurisdiction exercised by United States over lands comprising United States naval hospital, Portsmouth, Va. Approved July 28, 1964. 1 p. \* Paper, 5c.
- 17245 386. H.J. Res. 888, joint resolution to authorize commissioners of District of Columbia to promulgate special regulations for period of 91st annual session of Imperial Council, Ancient Arabic Order of Nobles of Mystic Shrine for North America, to be held in Washington, District of Columbia, in July 1965, to authorize granting of certain permits to Imperial Shrine Convention, 1965, Incorporated on occasions of such sessions, and for other purposes. [Approved July 28, 1964.] 3 p. \* Paper, 5c.
- 17246 387. H.R. 7499, act to authorize Secretary of Air Force or his designee to convey 0.25 acre of land to Oroville, Calif. Approved July 28, 1964. 1 p. \* Paper, 5c.
- 17247 388. H.R. 7248, act to change designated use of certain real property conveyed by Department of Air Force in Fort Walton Beach, Fla., under terms of Public law 86-194. Approved July 28, 1964. 1 p. \* Paper, 5c.
- 17248 389. H.R. 6299, act to authorize Secretary of Navy, to produce and sell crude oil from Umlat field, Naval Petroleum Reserve numbered 4, for purposes of making local fuel available for use in connection with drilling, mechanical, and heating operations of those involved in oil and gas exploration and development work in nearby areas outside Naval Petroleum Reserve numbered 4, and for other purposes. Approved July 28, 1964. 1 p. \* Paper, 5c.
- 17249 390. H.R. 10300, act to authorize certain construction at military installations, and for other purposes. [Approved Aug. 1, 1964.] 25 p. \* Paper, 15c.
- 17250 391. H.R. 9036, act to amend act of Oct. 24, 1951 (65 Stat. 634; 40 U.S.C. 193 (n)-(w)), as amended, relating to policing of buildings and grounds of Smithsonian Institution and its constituent bureaus. [Approved Aug. 1, 1964.] 2 p. \* Paper, 5c.
- 17251 392. H.R. 10532, act making appropriations for Treasury and Post Office Departments, Executive Office of the President, and certain independent agencies for fiscal year 1965, and for other purposes. [Approved Aug. 1, 1964.] 9 p. \* Paper, 10c.
- 17252 393. H.R. 10322, act to extend provisions of act of Aug. 11, 1959, Public law 86-155, as amended (74 Stat. 396) to provide improved opportunity for promotion for certain officers in naval service. Approved Aug. 1, 1964. 1 p. \* Paper, 5c.
- 17253 394. S. 2963, act to amend Atomic energy act of 1954, as amended, Atomic energy community act of 1955, as amended, and Euratom cooperation act of 1958, as amended. [Approved Aug. 1, 1964.] 2 p. \* Paper, 5c.
- 17254 395. H.R. 8313, act to repeal District of Columbia credit unions act, to convert credit unions incorporated under provisions of act to Federal credit unions, and for other purposes. Approved Aug. 1, 1964. 2 p. \* Paper, 5c.
- 17255 396. H.R. 9834, act granting renewal of patent numbered D-161,955, relating to plaque of American Legion. Approved Aug. 1, 1964. 1 p. \* Paper, 5c.
- 17256 397. H.R. 9833, act granting renewal of patent numbered D-162,975, relating to medal of American Legion. Approved Aug. 1, 1964. 1 p. \* Paper, 5c.
- 17257 398. H.R. 4177, act to authorize Secretary of Army to convey to Saint Paul, Minn., all right, title and interest of United States in and to certain lands heretofore conveyed to such city. Approved Aug. 3, 1964. 1 p. \* Paper, 5c.
- 17258 399. S. 944, act to provide for presentation by United States to people of Mexico of monument commemorating independence of Mexico, and for other purposes. Approved Aug. 4, 1964. 1 p. \* Paper, 5c.
- 17259 400. H.R. 9021, act to authorize use of 2 tracts of land situated in Salt Lake City, Utah, for public school purposes. [Approved Aug. 4, 1964.] 2 p. \* Paper, 5c.
- 17260 401. H.R. 248, act to amend sec. 801 of title 38, United States code, to provide assistance in acquiring specially adapted housing for certain blind veterans who have suffered loss or loss of use of lower extremity. Approved Aug. 4, 1964. 1 p. \* Paper, 5c.

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- 17261 402. H.R. 6652, act to authorize administrator of veterans' affairs to sell at prices which he determines to be reasonable direct loans made to veterans under chap. 37, title 38, United States code. Approved Aug. 4, 1964. 1 p. \* Paper, 5c.
- 17262 403. S.J. Res. 184, joint resolution for commemoration of Herbert Hoover's 90th birthday, Aug. 10, 1964. Approved Aug. 6, 1964. 1 p. \* Paper, 5c.
- 17263 404. H.R. 9689, act declaring portion of Bayou Black and Bayou Terrebonne, La., nonnavigable waterways of United States. Approved Aug. 7, 1964. 1 p. \* Paper, 5c.
- 17264 405. H.R. 6413, act to amend act approved Mar. 3, 1921, as amended, establishing standard weights and measures for District of Columbia, and for other purposes. [Approved Aug. 7, 1964.] 2 p. \* Paper, 5c.
- 17265 406. H.R. 8594, act to amend sec. 409 of title 37, United States code, to authorize transportation of house trailers and mobile dwellings of members of uniformed services within continental United States, within Alaska, or between continental United States and Alaska, and for other purposes. Approved Aug. 7, 1964. 2 p. \* Paper, 5c.
- 17266 407. H.R. 4732, act to change name of United States Olympic Association to United States Olympic Committee. Approved Aug. 10, 1964. 1 p. \* Paper, 5c.
- 17267 408. H.J. Res. 1145, joint resolution to promote maintenance of international peace and security in southeast Asia. Approved Aug. 10, 1964. 2 p. \* Paper, 5c.
- 17268 409. H.R. 8654, act to terminate restriction on use with respect to certain land previously conveyed to city of Fairbanks, Alaska, and to convey to said city mineral rights in such land. Approved Aug. 10, 1964. 1 p. \* Paper, 5c.
- 17269 410. H.R. 82, act to amend Merchant marine act of 1936, in order to provide for reimbursement of certain vessel construction expenses. [Approved Aug. 10, 1964.] 2 p. \* Paper, 5c.
- 17270 411. H.R. 7419, act to authorize conclusion of agreements with Mexico for joint construction, operation, and maintenance of emergency flood control works on lower Colorado River, in accordance with provisions of art. 13 of 1944 water treaty with Mexico, and for other purposes. Approved Aug. 10, 1964. 2 p. \* Paper, 5c.
- 17271 412. H.R. 10973, act to provide for disposition of judgment funds on deposit to credit of Lower Pend D'Oreille or Kalispel Tribe of Indians. Approved Aug. 10, 1964. 1 p. \* Paper, 5c.
- 17272 413. H.R. 10483, act to authorize sale of 58.19 acres of Eastern Shawnee tribal land in Oklahoma. Approved Aug. 10, 1964. 1 p. \* Paper, 5c.
- 17273 414. H.R. 11754, act to amend Foreign Service buildings act, 1926, to authorize additional appropriations, and for other purposes. Approved Aug. 10, 1964. 1 p. \* Paper, 5c.
- 17274 415. S. 2218, act to authorize Secretary of Interior to accept transfer of certain national forest lands in Cocke County, Tenn., for purposes of Foothills Parkway, and for other purposes. Approved Aug. 10, 1964. 1 p. \* Paper, 5c.
- 17275 416. H.J. Res. 658, joint resolution authorizing and requesting President to proclaim 1964 and 1965 as period to See the United States, and for other purposes. Approved Aug. 11, 1964. 1 p. \* Paper, 5c.
- 17276 417. H.R. 1892, act to repeal act of Oct. 22, 1919 (41 Stat. 293; 43 U.S.C 351-355, 357-360). Approved Aug. 11, 1964. 1 p. \* Paper, 5c.
- 17277 418. H.R. 2977, act to authorize sale of certain lands of Cheyenne River Sioux Tribe. Approved Aug. 11, 1964. 1 p. \* Paper, 5c.
- 17278 419. H.R. 7833, act to amend act to provide for distribution of land and assets of certain Indian rancherias and reservations in California, and for other purposes, approved Aug. 18, 1958 (72 Stat. 619). [Approved Aug. 11, 1964.] 2 p. \* Paper, 5c.
- 17279 420. H.R. 11622, act to permit vessel United States ship Alabama to pass through Panama Canal without payment of tolls. Approved Aug. 11, 1964. 1 p. \* Paper, 5c.
- 17280 421. H.R. 7215, act to direct Secretary of Interior to convey certain lands to Citizen Band of Potawatomi Indians and certain other lands to Absentee-Shawnee Tribe of Indians, and for other purposes. [Approved Aug. 11, 1964.] 3 p. \* Paper, 5c.
- 17281 422. S. 3001, act to amend title 37, United States code, to increase rates of basic pay for members of uniformed services. [Approved Aug. 12, 1964.] 3 p. \* Paper, 5c.
- 17282 423. H.R. 10503, act to authorize appropriations for fiscal years 1966 and 1967 for construction of certain highways in accordance with title 23 of United States code, and for other purposes. [Approved Aug. 13, 1964.] 2 p. \* Paper, 5c.
- 17283 424. S. 978, act to provide medical care for certain persons engaged on board vessel in care, preservation, or navigation of such vessel. Approved Aug. 13, 1964. 1 p. \* Paper, 5c.
- 17284 425. S. 2339, act conferring jurisdiction upon United States Court of Claims to hear, determine, and render judgment upon claim of Sarpy County, Nebr. Approved Aug. 13, 1964. 1 p. \* Paper, 5c.
- 17285 426. H.R. 11049, act to adjust rates of basic compensation of certain officers and employees in Federal Government, and for other purposes. [Approved Aug. 14, 1964.] 37 p. \* Paper, 15c.

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- 17286 427. H.J. Res. 925, joint resolution creating joint committee to commemorate 100th anniversary of 2d inaugural of Abraham Lincoln. [Approved Aug. 14, 1964.] 2 p. \* Paper, 5c.
- 17287 428. H.R. 2989, act to further amend Missing persons act to cover certain persons detained in foreign countries against their will, and for other purposes. [Approved Aug. 14, 1964.] 2 p. \* Paper, 5c.
- 17288 429. H.R. 8523, act to authorize conveyance of certain lands to Saxman, Alaska. Approved Aug. 14, 1964. 1 p. \* Paper, 5c.
- 17289 430. H.R. 8251, act to amend sec. 612, title 38, United States Code, to authorize dental services and treatment in cases where discharges were corrected by competent authority from dishonorable to conditions other than dishonorable. Approved Aug. 14, 1964. 1 p. \* Paper, 5c.
- 17290 431. H.R. 4739, act to amend sec. 406 of title 37, United States Code, with regard to advance movement of dependents and baggage and household effects of members of uniformed services. [Approved Aug. 14, 1964.] 2 p. \* Paper 5c.
- 17291 432. H.R. 9634, act to authorize Secretary of Defense to lend certain Army, Navy and Air Force equipment and provide certain services to Girl Scouts of United States of America for use at 1965 Girl Scouts Senior Roundup encampment, and for other purposes. Approved Aug. 14, 1964. 1 p. \* Paper, 5c.
- 17292 433. H.R. 8611, act to facilitate performance of medical research and development within Veterans' Administration by providing for indemnification of contractors. [Approved Aug. 14, 1964.] 2 p. \* Paper, 5c.
- 17293 434. H.R. 7751, act to extend certain construction authority to Administrator of Veterans' Affairs in order to provide adequate veterans hospital facilities in Los Angeles, Calif. Approved Aug. 14, 1964. 1 p. \* Paper, 5c.
- 17294 435. H.R. 11255, act to validate certain payments of per diem allowances made to members of Coast Guard. Approved Aug. 14, 1964. 1 p. \* Paper, 5c.
- 17295 436. H.R. 10319, act to amend title 10, United States Code, to authorize increased fees for sale of Naval Oceanographic Office publications. Approved Aug. 14, 1964. 1 p. \* Paper, 5c.
- 17296 437. H.R. 11035, act to authorize extension of certain naval vessel loans now in existence. Approved Aug. 14, 1964. 1 p. \* Paper, 5c.
- 17297 438. H.R. 10610, act to provide for conveyance of certain real property under control of Administrator of Veterans' Affairs. Approved Aug. 14, 1964. 1 p. \* Paper, 5c.
- 17298 439. H.R. 1997, act to amend subsec. (c) of sec. 1332 of title 28, United States Code, relating to diversity of citizenship. Approved Aug. 14, 1964. 1 p. \* Paper, 5c.
- 17299 440. H.R. 10611, act to provide for conveyance of certain real property under control of Administrator of Veterans' Affairs. Approved Aug. 14, 1964. 1 p. \* Paper, 5c.
- 17300 441. S. 1326, act to provide that price at which Coast and Geodetic Survey sells certain charts and related material to public shall not be less than cost thereof. Approved Aug. 14, 1964. 1 p. \* Paper, 5c.
- 17301 442. H.R. 9521, act to increase authorization for appropriation for continuing work in Missouri River Basin by Secretary of Interior. Approved Aug. 4, 1964. 1 p. \* Paper, 5c.
- 17302 443. H.R. 10041, act to improve public health through revising, consolidating, and improving hospital and other medical facilities provisions of Public Health Service. [Approved Aug. 18, 1964.] 16 p. \* Paper, 10c.
- 17303 444. H.R. 11611, act to establish National Commission on Technology, Automation, and Economic Progress. [Approved Aug. 19, 1964.] 3 p. \* Paper, 5c.
- 17304 445. H.R. 8925, act to amend title 38 of United States code in order to provide that disability which has been rated at or above certain percentage for 20 or more years may not thereafter be reduced below such percentage. Approved Aug. 19, 1964. 1 p. \* Paper, 5c.
- 17305 446. H.R. 10939, act making appropriations for Department of Defense for fiscal year 1965, and for other purposes. [Approved Aug. 19, 1964.] 17 p. \* Paper, 10c.
- 17306 447. H.R. 8999, act to provide for settlement of claims of certain inhabitants of United States living in area inundated by sudden floods of Rio Grande as result of construction of Falcon Dam, and for other purposes. [Approved Aug. 19, 1964.] 3 p. \* Paper, 5c.
- 17307 448. H.R. 7381, act to simplify, modernize, and consolidate laws relating to employment of civilians in more than one position and laws concerning civilian employment of retired members of uniformed services, and for other purposes. [Approved Aug. 19, 1964.] 13 p. \* Paper, 10c.
- 17308 449. S. 1991, act to charter by act of Congress Pacific Tropical Botanical Garden. [Approved Aug. 19, 1964.] 4 p. \* Paper, 5c.
- 17309 450. H.R. 8009, act to amend title 38, United States Code, to provide veterans with urgently needed nursing home care and nursing care facilities while reducing cost to United States of caring for such veterans, and for other purposes. [Approved Aug. 19, 1964.] 6 p. \* Paper, 5c.
- 17310 451. S. 2881, act to amend Alaska omnibus act to provide assistance to Alaska for reconstruction of areas damaged by earthquake of Mar. 1964 and subsequent seismic waves, and for other purposes. [Approved Aug. 19, 1964.] 3 p. \* Paper, 5c.

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- 17311 452. S. 2642, act to mobilize human and financial resources of Nation to combat poverty in United States. [Approved Aug. 20, 1964.] 27 p. \* Paper, 15c.
- 17312 453. H.R. 11562, act to authorize Secretary of Interior to sell Enterprise Rancheria numbered 2 to California, and to distribute proceeds of sale to Henry B. Martin, Stanley Martin, Ralph G. Martin, and Vera Martin Kiras. Approved Aug. 20, 1964. 1 p. \* Paper, 5c.
- 17313 454. H.R. 10723, act making appropriations for legislative branch for fiscal year 1965, and for other purposes. [Approved Aug. 20, 1964.] 18 p. \* Paper, 10c.
- 17314 455. S. 1057, act to promote cause of criminal justice by providing for representation of defendants who are financially unable to obtain adequate defense in criminal cases in courts of United States. [Approved Aug. 20, 1964.] 3 p. \* Paper, 5c.
- 17315 456. H.R. 1713, act to approve order of Secretary of Interior canceling irrigation charges against non-Indian-owned lands under Klamath Indian irrigation project, Oreg., and for other purposes. Approved Aug. 20, 1964. 1 p. \* Paper, 5c.
- 17316 457. H.R. 8834, act to provide for disposition of funds arising from judgment in favor of Shawnee Tribe or Nation of Indians. [Approved Aug. 20, 1964.] 2 p. \* Paper, 5c.
- 17317 458. H.R. 6128, act to amend sec. 15 of Life insurance act to permit any stock life insurance company in District of Columbia to maintain its record of stockholders at its principal place of business in District of Columbia or at office of its designated stock transfer agent in District of Columbia, and for other purposes. Approved Aug. 20, 1964. 2 p. \* Paper, 5c.
- 17318 459. S. 1833, act to authorize Government agencies to provide quarters and facilities to civilian officers and employees of Government, and for other purposes. [Approved Aug. 20, 1964.] 2 p. \* Paper, 5c.
- 17319 460. H.R. 6350, act to amend act for regulation of practice of dentistry in District of Columbia, and for protection of people from empiricism in relation thereto, approved June 6, 1892, as amended. Approved Aug. 20, 1964. 1 p. \* Paper, 5c.
- 17320 461. H.R. 6496, act to convey certain federally owned land to Cherokee Tribe of Oklahoma. Approved Aug. 20, 1964. 1 p. \* Paper, 5c.
- 17321 462. H.R. 11329, act to provide for relocation and reestablishment of village of Sil Murk and of members of Papago Indian Tribe inhabiting village of Sil Murk, and for other purposes. Approved Aug. 20, 1964. 1 p. \* Paper, 5c.
- 17322 463. S. 136, act to place in trust status certain lands on Rosebud Sioux Reservation in South Dakota. [Approved Aug. 20, 1964.] 4 p. \* Paper, 5c.
- 17323 464. H.R. 8080, act to authorize Secretary of Interior to prepare roll of persons eligible to receive funds from Indian Claims Commission judgment in favor of Snake or Paiute Indians of former Malheur Reservation in Oregon, to prorate and distribute such funds, and for other purposes. Approved Aug. 20, 1964. 2 p. \* Paper, 5c.
- 17324 465. H.R. 8334, act to transfer to Salt River Pima-Maricopa Indian Community certain lands within Salt River Pima-Maricopa Indian Reservation. Approved Aug. 20, 1964. 1 p. \* Paper, 5c.
- 17325 466. S. 2318, act to amend joint resolution approved Aug. 20, 1958, granting consent of Congress to several States to negotiate and enter into compacts for purpose of promoting highway traffic safety. Approved Aug. 20, 1964. 1 p. \* Paper, 5c.
- 17326 467. S. 1642, act to amend Securities act of 1933, as amended, and Securities exchange act of 1934, as amended, to extend disclosure requirements to issuers of additional publicly traded securities, to provide for improved qualification and disciplinary procedures for registered brokers and dealers, and for other purposes. [Approved Aug. 20, 1964.] 17 p. \* Paper, 10c.
- 17327 468. S. 1627, act to enable United States to contribute its share of expenses of International Commission for Supervision and Control in Laos as provided in art. 18 of protocol to declaration on neutrality of Laos. Approved Aug. 20, 1964. 1 p. \* Paper, 5c.
- 17328 469. H.J. Res. 1026, joint resolution to amend sec. 316 of Agricultural adjustment act of 1938 to extend time by which lease transferring tobacco acreage allotment may be filed. Approved Aug. 20, 1964. 1 p. \* Paper, 5c.
- 17329 470. H.R. 9975, act to exempt from taxation certain property of National Trust for Historic Preservation in United States in District of Columbia. Approved Aug. 21, 1964. 1 p. \* Paper, 5c.
- 17330 471. H.R. 10215, act relating to sick leave benefits for officers and members of Metropolitan Police force of District of Columbia, Fire department of District of Columbia, United States Park Police force, and White House Police force. [Approved Aug. 21, 1964.] 2 p. \* Paper, 5c.
- 17331 472. H.R. 5337, act to increase partial pay of educational employees of public schools of District of Columbia who are on leave of absence for educational improvement, and for other purposes. [Approved Aug. 21, 1964.] 2 p. \* Paper, 5c.
- 17332 473. H.R. 5044, act to amend act to provide for mutual-aid plan for fire protection by and for District of Columbia and certain adjacent communities in Maryland and Virginia, and for other purposes. Approved Aug. 21, 1964. 1 p. \* Paper, 5c.

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- 17333 474. H.R. 10672, act to provide for disposition of judgment funds now on deposit to credit of Pawnee Tribe of Oklahoma. Approved Aug. 21, 1964. 1 p. \* Paper, 5c.
- 17334 475. H.R. 11222, act to amend Horizontal property act of District of Columbia to permit condominium unit to be located on more than one floor of building, and for other purposes. Approved Aug. 21, 1964. 1 p. \* Paper, 5c.
- 17335 476. H.R. 9993, act to amend Policemen and firemen's retirement and disability act to allow credit to certain members of Secret Service Division for periods of prior police service. Approved Aug. 21, 1964. 1 p. \* Paper, 5c.
- 17336 477. H.R. 988, act to authorize Secretary of Interior to acquire Graf House site for inclusion in Independence National Historical Park, and for other purposes. Approved Aug. 21, 1964. 1 p. \* Paper, 5c.
- 17337 478. S. 927, act to amend title 12 of Merchant marine act, 1936, in order to remove certain limitations with respect to war risk insurance issued under provisions of such title. Approved Aug. 22, 1964. 1 p. \* Paper, 5c.
- 17338 479. H.R. 10199, act making appropriations for government of District of Columbia and other activities chargeable in whole or in part against revenues of said District for fiscal year 1965, and for other purposes. [Approved Aug. 22, 1964.] 6 p. \* Paper, 5c.
- 17339 480. H.R. 9653, act to extend authority of Postmaster General to enter into leases of real property for periods not exceeding 30 years, and for other purposes. Approved Aug. 22, 1964. 1 p. \* Paper, 5c.
- 17340 481. S. 1046, act to provide hospital, domiciliary, and medical care for non-service-connected disabilities to recipients of Medal of Honor. Approved Aug. 22, 1964. 1 p. \* Paper, 5c.
- 17341 482. H.R. 1839, act to provide for free importation of certain wild animals, and to provide for imposition of quotas on certain meat and meat products. [Approved Aug. 22, 1964.] 2 p. \* Paper, 5c.
- 17342 483. H.R. 11052, act to declare that 80 acres of land acquired for Flandreau Boarding School is held by United States in trust for Flandreau Santee Sioux Tribe. Approved Aug. 22, 1964. 1 p. \* Paper, 5c.
- 17343 484. H.R. 7301, act to amend sec. 341 of Internal revenue code of 1954, relating to collapsible corporations, and to amend sec. 543(a)(2) of such code, relating to inclusion of rents in personal holding company income. [Approved Aug. 22, 1964.] 3 p. \* Paper, 5c.
- 17344 485. H.R. 1988, act to provide for settlement of claims of certain residents of Trust Territory of Pacific Islands. Approved Aug. 22, 1964. 1 p. \* Paper, 5c.
- 17345 486. H.R. 7441, act to amend act to authorize Commissioners of District of Columbia to remove dangerous or unsafe buildings and parts thereof, and for other purposes, approved Mar. 1, 1899, as amended. [Approved Aug. 22, 1964.] 3 p. \* Paper, 5c.
- 17346 487. H.R. 3198, act to promote economic and social development of Trust Territory of Pacific Islands, and for other purposes. Approved Aug. 22, 1964. 2 p. \* Paper, 5c.
- 17347 488. H.J. Res. 1160, joint resolution making continuing appropriations for fiscal year 1965, and for other purposes. Approved Aug. 22, 1964. 1 p. \* Paper, 5c.
- 17348 489. S. 3075, act to amend Atomic energy act of 1954, as amended, and for other purposes. [Approved Aug. 26, 1964.] 5 p. \* Paper, 5c.
- 17349 490. S. 1451, act to amend section 41(a) of Trading with the enemy act. Approved Aug. 26, 1964. 1 p. \* Paper, 5c.
- 17350 491. S. 502, act to preserve jurisdiction of Congress over construction of hydro-electric projects on Colorado River below Glen Canyon Dam. Approved Aug. 27, 1964. 1 p. \* Paper, 5c.
- 17351 492. S. 16, act to provide for establishment of Ozark National Scenic Riverways in Missouri, and for other purposes. [Approved Aug. 27, 1964.] 3 p. \* Paper, 5c.
- 17352 493. S. 1917, act to provide authority to protect heads of foreign states and other officials. Approved Aug. 27, 1964. 1 p. \* Paper, 5c.
- 17353 494. S. 51, act to authorize Secretary of Agriculture to relinquish to Wyoming jurisdiction over those lands within Medicine Bow National Forest known as Pole Mountain District. Approved Aug. 27, 1964. 1 p. \* Paper, 5c.
- 17354 495. S. 2419, act to authorize Secretary of Interior to condemn certain property in St. Augustine, Fla., within boundary of Castillo de San Marcos National Monument, and for other purposes. Approved Aug. 27, 1964. 1 p. \* Paper, 5c.
- 17355 496. S.J. Res. 162, joint resolution extending recognition to International Exposition for Southern California in year 1968 and authorizing the President to issue proclamation calling upon the several States of the Union and foreign countries to take part in exposition. Approved Aug. 27, 1964. 1 p. \* Paper, 5c.
- 17356 497. H.R. 11083, act to amend Public Health Service act to extend authorization for assistance in provision of graduate or specialized public health training, and for other purposes. Approved Aug. 27, 1964. 1 p. \* Paper, 5c.
- 17357 498. S. 1006, act to amend Act of June 12, 1960, for correction of inequities in construction of fishing vessels, and for other purposes. [Approved Aug. 30, 1964.] 2 p. \* Paper, 5c.

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- 17358 499. S. 1664, act to provide for continuous improvement of administrative procedure of Federal agencies by creating Administrative Conference of United States, and for other purposes. [Approved Aug. 30, 1964.] 4 p. \* Paper, 5c.
- 17359 500. H.R. 189, act to authorize conveyance of certain Federal land under jurisdiction of Naval Ordnance Test Station, China Lake, Calif., to county of Kern, Calif. Approved Aug. 30, 1964. 1 p. \* Paper, 5c.
- 17360 501. S. 2369, act to retrocede to Kansas exclusive jurisdiction over certain State highways bordering Fort Leavenworth Military Reservation and United States Penitentiary at Leavenworth. Approved Aug. 30, 1964. 1 p. \* Paper, 5c.
- 17361 502. H.R. 5728, act for relief of county of Cuyahoga, Ohio. Approved Aug. 30, 1964. 1 p. \* Paper, 5c.
- 17362 503. H.R. 9419, act to provide for regulation of business of selling securities in District of Columbia and for licensing of persons engaged therein, and for other purposes. [Approved Aug. 30, 1964.] 16 p. \* Paper, 10c.
- 17363 504. H.R. 4223, act to provide for audit of accounts of private corporations established under Federal law. [Approved Aug. 30, 1964.] 4 p. \* Paper, 5c.
- 17364 505. H.R. 5543, act to extend provisions of Act of Oct. 11, 1949 (63 Stat. 759, ch. 672; 32 D.C. Code 417), to authorize commitment of persons of unsound mind found on Federal reservations in Loudoun County, Va., to Saint Elizabeths Hospital in District of Columbia. [Approved Aug. 30, 1964.] 2 p. \* Paper, 5c.
- 17365 506. H.R. 1118, act to provide for disposition of funds from judgments in favor of Nehalem Band of Tillamook Indians and Tillamook Band of Tillamook Indians. Approved Aug. 30, 1964. 1 p. \* Paper, 5c.
- 17366 507. H.R. 11296, act making appropriations for sundry independent executive bureaus, boards, commissions, corporations, agencies, and offices, for fiscal year ending June 30, 1965, and for other purposes. Approved Aug. 30, 1964. 27 p. \* Paper, 15c.
- 17367 508. H.R. 7662, act to amend Federal employees' compensation act, as amended, to provide appeal rights to employees of Canal Zone Government and Panama Canal Company. Approved Aug. 30, 1964. 1 p. \* Paper, 5c.
- 17368 509. H.R. 11466, act to enact subtitle 2, other commercial transactions of title 28, Commercial instruments and transactions, of District of Columbia Code and for other purposes. [Approved Aug. 30, 1964.] 15 p. \* Paper, 10c.
- 17369 510. H.R. 946, act to authorize establishment of Fort Bowie National Historic Site in Arizona, and for other purposes. Approved Aug. 30, 1964. 1 p. \* Paper, 5c.
- 17370 511. H.R. 11579, act making appropriations for certain civil functions administered by Department of Defense, Panama Canal, certain agencies of Department of Interior, Atomic Energy Commission, Saint Lawrence Seaway Development Corporation, Tennessee Valley Authority and Delaware River Basin Commission, for fiscal year 1965, and for other purposes. [Approved Aug. 30, 1964.] 14 p. \* Paper, 10c.
- 17371 512. H.R. 5964, act to provide for inclusion of Hopkins County, Tex., within Paris division of eastern district for United States District Courts in Texas. Approved Aug. 30, 1964. 1 p. \* Paper, 5c.
- 17372 513. H.R. 7508, act to amend title 28, United States Code, to establish jurisdiction and venue for appeals from orders of Interstate Commerce Commission in judicial reference cases. Approved Aug. 30, 1964. 1 p. \* Paper, 5c.
- 17373 514. H.R. 6353, act to amend District of Columbia unemployment compensation act, as amended. Approved Aug. 30, 1964. 1 p. \* Paper, 5c.
- 17374 515. H.R. 1341, act to require passenger-carrying motor vehicles purchased for use by Federal Government to meet certain passenger safety standards. Approved Aug. 30, 1964. 1 p. \* Paper, 5c.
- 17375 516. H.R. 9334, act to amend act of May 21, 1928, relating to standards of containers for fruits and vegetables, to permit use of additional standard containers. [Approved Aug. 30, 1964.] 2 p. \* Paper, 5c.
- 17376 517. H.R. 10683, act to amend act of July 25, 1956, to remove certain residence restrictions upon officers and members of Metropolitan Police force and Fire Department of District of Columbia. Approved Aug. 30, 1964. 1 p. \* Paper, 5c.
- 17377 518. H.R. 10705, act to amend Government corporation control act to change General Accounting Office audit to calendar year basis in case of Federal home loan banks and Federal Savings and Loan Insurance Corporation. Approved Aug. 30, 1964. 1 p. \* Paper, 5c.
- 17378 519. H.R. 11520, act to amend subsec. (d) of sec. 1346 of title 28 of United States Code relating to jurisdiction of United States district courts. Approved Aug. 30, 1964. 1 p. \* Paper, 5c.
- 17379 520. H.R. 7219, act to amend secs. 3288 and 3289 of title 18, United States Code, relating to indictment after dismissal of defective indictment. Approved Aug. 30, 1964. 1 p. \* Paper, 5c.
- 17380 521. H.R. 10446, act to permit use of statistical sampling procedures in examination of vouchers. Approved Aug. 30, 1964. 1 p. \* Paper, 5c.
- 17381 522. H.R. 9436, act to amend act of Sept. 2, 1958, to establish Commission and Advisory Committee on International Rules of Judicial Procedure, as amended. Approved Aug. 30, 1964. 1 p. \* Paper, 5c.

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# GOVERNMENT PUBLICATIONS

## Public laws, 88th Congress—Continued

- 17382 523. S. 1363, act to increase participation by counties, in revenues from National Wildlife Refuge System by amending act of June 15, 1935, relating to such participation, and for other purposes. [Approved Aug. 30, 1964.] 2 p. \* Paper, 5c.
- 17383 524. H.R. 10069, act to authorize exchange of lands adjacent to Lassen National Forest in California, and for other purposes. Approved Aug. 31, 1964. 1 p. \* Paper, 5c.
- 17384 525. H.R. 10222, act to strengthen agricultural economy, to help to achieve fuller and more effective use of food abundances, to provide for improved levels of nutrition among low-income households through cooperative Federal-State program of food assistance to be operated through normal channels of trade, and for other purposes. [Approved Aug. 31, 1964.] 8 p. \* Paper, 5c.
- 17385 526. H.R. 8960, act to amend sec. 27 of Mineral leasing act of Feb. 25, 1920, as amended, in order to promote development of coal on public domain and for other purposes. Approved Aug. 31, 1964. 2 p. \* Paper, 5c.
- 17386 527. H.R. 11134, act making appropriations for Departments of State, Justice, and Commerce, the Judiciary, and related agencies for fiscal year ending June 30, 1965, and for other purposes. [Approved Aug. 31, 1964.] 26 p. \* Paper, 15c.
- 17387 528. H.R. 10419, act to amend further Farm credit act of 1933, as amended, to provide that part of patronage refunds paid by bank for cooperatives shall be in money, instead of class C stock after bank becomes subject to Federal income tax, and for other purposes. Approved Aug. 31, 1964. 1 p. \* Paper, 5c.
- 17388 529. H.R. 9747, act to extend for 3 years special milk programs for Armed Forces and veterans hospitals. Approved Aug. 31, 1964. 1 p. \* Paper, 5c.
- 17389 530. H.R. 4818, act to amend sec. 25 of title 13, United States Code, relating to duties of enumerators of Bureau of Census, Department of Commerce. Approved Aug. 31, 1964. 1 p. \* Paper, 5c.
- 17390 531. H.R. 5708, act to bring certain United States commissioners within purview of Federal employees health benefits act of 1959 and Federal employees group life insurance act of 1954. Approved Aug. 31, 1964. 1 p. \* Paper, 5c.
- 17391 532. H.R. 3545, act to amend sec. 131 of title 13, United States Code, so as to provide for taking economic censuses one year earlier starting in 1968. Approved Aug. 31, 1964. 1 p. \* Paper, 5c.
- 17392 533. H.R. 1794, act to authorize payment for certain interests in lands within Allegheny Indian Reservation in New York, required by United States for Allegheny River (Kinzua Dam) project, to provide for relocation, rehabilitation, social and economic development of members of Seneca Nation, and for other purposes. [Approved Aug. 31, 1964.] 6 p. \* Paper, 5c.
- 17393 534. H.R. 9178, act to amend sec. 8(b) of Soil conservation and domestic allotment act, and for other purposes. Approved Aug. 31, 1964. 1 p. \* Paper, 5c.
- 17394 535. H.R. 9425, act to amend title 13, United States Code, to authorize reimbursement of census enumerators for certain telephone tolls and charges. Approved Aug. 31, 1964. 1 p. \* Paper, 5c.
- 17395 536. H.R. 8135, act to provide for establishment and administration of public recreational facilities at Sanford Reservoir area, Canadian River project, Texas, and for other purposes. Approved Aug. 31, 1964. 1 p. \* Paper, 5c.
- 17396 537. H.R. 7588, act to provide for enforcement of rules and regulations for protection, development and administration of national forests and national grasslands, and for other purposes. Approved Aug. 31, 1964. 1 p. \* Paper, 5c.
- 17397 538. H.R. 11211, act to provide authority for payment of certain amounts to offset certain expenses of Federal employees assigned to duty on California offshore islands, and for other purposes. Approved Aug. 31, 1964. 1 p. \* Paper, 5c.
- 17398 539. H.R. 98, act to amend Internal revenue code of 1954 with respect to exportation of imported distilled spirits, wines, and beer, and with respect to total contract price of sales of personal property on installment plan. [Approved Aug. 31, 1964.] 2 p. \* Paper, 5c.
- 17399 540. H.R. 5837, act to amend act entitled act to authorize purchase, sale, and exchange of certain Indian lands on Yakima Indian Reservation, and for other purposes, approved July 28, 1955. [Approved Aug. 31, 1964.] 2 p. \* Paper, 5c.
- 17400 541. H.R. 3071, act to provide for establishment of Fort Larned as national historic site, and for other purposes. Approved Aug. 31, 1964. 1 p. \* Paper, 5c.
- 17401 542. H.R. 8344, act to amend Railway labor act to provide that terms of office of members of National Mediation Board shall expire on July 1. Approved Aug. 31, 1964. 1 p. \* Paper, 5c.
- 17402 543. H.R. 4018, act to authorize establishment of Saint-Gaudens National Historic Site, N.H., and for other purposes. [Approved Aug. 31, 1964.] 2 p. \* Paper, 5c.

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# OCTOBER 1964

- 17403 544. H.R. 4242, act to provide for release and transfer of all right, title, and interest of United States in and to certain tracts of land in Pender County, N.C. [Approved Aug. 31, 1964.] 2 p. \* Paper, 5c.
- 17404 545. H.R. 4149, act to provide for satisfaction of claims arising out of scrip, lieu selection, and similar rights. [Approved Aug. 31, 1964.] 2 p. \* Paper, 5c.
- 17405 546. H.R. 931, act to provide for establishment of Allegheny Portage Railroad National Historic Site and Johnstown Flood National Memorial in Pennsylvania, and for other purposes. Approved Aug. 31, 1964. 2 p. \* Paper, 5c.
- 17406 548. H.R. 9638, act to amend sec. 27 of Mineral leasing act of Feb. 25, 1920, as amended, in order to promote development of phosphate on public domain. Approved Aug. 31, 1964. 1 p. \* Paper, 5c.
- 17407 549. H.R. 10178, act to authorize Smithsonian Institution to employ aliens in scientific or technical capacity. Approved Aug. 31, 1964. 1 p. \* Paper, 5c.
- 17408 550. H.R. 11846, act to amend act of Aug. 19, 1958, to permit purchases of processed food grain products in addition to purchase of flour and cornmeal and donating same for certain domestic and foreign purposes. Approved Aug. 31, 1964. 1 p. \* Paper, 5c.
- 17409 551. S. 1169, act to authorize per capita distribution of \$350 from funds arising from judgments in favor of any of Confederated Tribes of Colville Reservation. Approved Aug. 31, 1964. 1 p. \* Paper, 5c.
- 17410 552. S. 1007, act to guarantee electric consumers in Pacific Northwest first call on electric energy generated at Federal hydroelectric plants in that region and to guarantee electric consumers in other regions reciprocal priority, and for other purposes. [Approved Aug. 31, 1964.] 4 p. \* Paper, 5c.
- 17411 553. H.R. 12278, act to authorize Secretary of Navy to convey to Sunnyvale, Calif., certain lands in Santa Clara County, Calif., in exchange for certain other lands. [Approved Aug. 31, 1964.] 2 p. \* Paper, 5c.
- 17412 554. H.R. 10467, act to continue for temporary period certain existing rules relating to deductibility of accrued vacation pay, and for other purposes. [Approved Aug. 31, 1964.] 4 p. \* Paper, 5c.
- 17413 555. H.J. Res. 733, joint resolution to designate powerhouse on Clear Creek at head of Whiskeytown Reservoir, in California, as Judge Francis Carr Powerhouse. Approved Aug. 31, 1964. 1 p. \* Paper, 5c.
- 17414 556. H.R. 8355, act to amend Life insurance company act of District of Columbia (48 Stat. 1145), approved June 19, 1934, as amended. [Approved Aug. 31, 1964.] 2 p. \* Paper, 5c.
- 17415 557. H.R. 11960, act to authorize exchange of public domain lands heretofore withdrawn and reserved for use of Hanford project of Atomic Energy Commission, and for other purposes. [Approved Aug. 31, 1964.] 2 p. \* Paper, 5c.
- 17416 558. H.R. 6910, act to provide for settlement of claims against United States by members of uniformed services and civilian officers and employees of United States for damages to, or loss of, personal property incident to their service, and for other purposes. [Approved Aug. 31, 1964.] 2 p. \* Paper, 5c.
- 17417 559. S. 2961, act to provide for disposition of judgment funds on deposit to credit of Northern Cheyenne Tribe of Tongue River Indian Reservation, Mont. Approved Sept. 1, 1964. 1 p. \* Paper, 5c.
- 17418 560. S. 3049, act to extend and amend laws relating to housing, urban renewal, and community facilities, and for other purposes. [Approved Sept. 2, 1964.] 40 p. \* Paper, 15c.
- 17419 561. H.R. 130, act to provide for payment of compensation, including severance damages, for rights-of-way acquired by United States in connection with reclamation projects construction of which commenced after Jan. 1, 1961. Approved Sept. 2, 1964. 1 p. \* Paper, 5c.
- 17420 562. H.R. 11338, act to remove certain conditions subject to which certain real property in South Boston, Mass., was authorized to be conveyed to Massachusetts Port Authority. Approved Sept. 2, 1964. 1 p. \* Paper, 5c.
- 17421 563. H.R. 8000, act to amend Internal revenue code of 1954 to impose tax on acquisitions of certain foreign securities in order to equalize costs of longer-term financing in United States and in markets abroad, and for other purposes. [Approved Sept. 2, 1964.] 39 p. \* Paper, 15c.
- 17422 564. H.R. 8451, act to amend District of Columbia sales tax act, as amended, relating to certain sales to common carriers or sleeping-car companies. Approved Sept. 2, 1964. 1 p. \* Paper, 5c.
- 17423 565. S. 26, act to authorize Secretary of Interior to construct, operate, and maintain Dixie project, Utah, and for other purposes. [Approved Sept. 2, 1964.] 2 p. \* Paper, 5c.
- 17424 566. H.J. Res. 393, joint resolution to authorize the President to proclaim Oct. 9 in each year as Leif Erikson Day. Approved Sept. 2, 1964. 1 p. \* Paper, 5c.
- 17425 567. S. 793, act to promote conservation to Nation's wildlife resources on Pacific flyway in Tule Lake, Lower Klamath, Upper Klamath, and Clear Lake National Wildlife Refuges in Oregon and California and to aid in administration of Klamath reclamation project. [Approved Sept. 2, 1964.] 3 p. \* Paper, 5c.

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# GOVERNMENT PUBLICATIONS

## Public laws, 88th Congress—Continued

- 17426 568. H.R. 3672, act to provide for construction, operation, and maintenance of Savery-Pot Hook, Bostwick Park, and Fruitland Mesa participating reclamation projects under Colorado River storage project act. [Approved Sept. 2, 1964.] 2 p. \* Paper, 5c.
- 17427 569. H.R. 12128, act to amend act of Mar. 10, 1964. Approved Sept. 2, 1964. 1 p. \* Paper, 5c.
- 17428 570. H.R. 4844, act relating to release of liability under bonds filed under sec. 44(d) of Internal Revenue Code of 1939 with respect to certain installment obligations transmitted at death, and to amend Internal Revenue Code of 1954 with respect to certain reacquisitions of real property. [Approved Sept. 2, 1964.] 3 p. \* Paper, 5c.
- 17429 571. H.R. 5739, act to amend Internal revenue code of 1954 to correct certain inequities with respect to taxation of life insurance companies, and for other purposes. [Approved Sept. 2, 1964.] 5 p. \* Paper, 5c.
- 17430 572. H.R. 9803, act to authorize Secretary of Army to acquire building constructed on Fort Jay Military Reservation, New York, by Young Men's Christian Association. Approved Sept. 2, 1964. 1 p. \* Paper, 5c.
- 17431 573. H.R. 11202, act making appropriations for Department of Agriculture and related agencies for fiscal year 1965, and for other purposes. [Approved Sept. 2, 1964.] 15 p. \* Paper, 10c.
- 17432 574. H.R. 11594, act to authorize Secretary of Navy to convey to California certain lands in county of Monterey, California, in exchange for certain other lands. [Approved Sept. 2, 1964.] 4 p. \* Paper, 5c.
- 17433 575. H.R. 12196, act to amend District of Columbia police and firemen's salary act of 1958, as amended, District of Columbia teachers' salary act of 1955, and for other purposes. [Approved Sept. 2, 1964.] 8 p. \* Paper, 5c.
- 17434 576. H.R. 11369, act making appropriations for military construction for Department of Defense fiscal year 1965, and for other purposes. [Approved Sept. 2, 1964.] 4 p. \* Paper, 5c.
- 17435 577. S. 4, act to establish National Wildlife Preservation System for permanent good of the whole people, and for other purposes. [Approved Sept. 3, 1964.] 7 p. \* Paper, 5c.
- 17436 578. H.R. 3546, act to establish a land and water conservation fund to assist States and Federal agencies in meeting present and future outdoor recreation demands and needs of the American people, and for other purposes. [Approved Sept. 3, 1964.] 9 p. \* Paper, 10c.
- 17437 579. H.R. 9586, act to provide for establishment of National Council on the Arts to assist in growth and development of the arts in United States. [Approved Sept. 3, 1964.] 4 p. \* Paper, 5c.
- 17438 580. S. 2950, act to authorize the mint to inscribe the figure 1964 on all coins minted until adequate supplies of coins are available. Approved Sept. 3, 1964. 1 p. \* Paper, 5c.
- 17439 581. H.R. 11241, act to amend Public Health Service act to increase opportunities for training professional nursing personnel, and for other purposes. [Approved Sept. 4, 1964.] 12 p. \* Paper, 10c.

## ATOMIC ENERGY JOINT COMMITTEE

Washington, D.C. 20515

- 17440 Agreement for cooperation with NATO for mutual defense purposes, hearings before Subcommittee on Agreements for Cooperation, 88th Congress, 2d session, on proposed new agreement, July 30 and Aug. 18, 1964. 1964. iii+82 p. \* Paper, 30c. ● Item 999  
L.C. card 64-62512 Y 4At 7/2: M 98/964

## ECONOMIC JOINT COMMITTEE

Washington, D.C. 20510

- 17441 Economic impact of Federal supply and service activities, report of Subcommittee on Defense Procurement; Sept. 1964. 1964. v+29 p. il. (Joint committee print, 88th Congress, 2d session.) \* Paper, 15c.  
L.C. card 64-62677 Y 4.Ec 7: Su 7
- 17442 Federal tax system, facts and problems, 1964; materials assembled by committee staff. 1964. x+321 p. (Joint committee print, 88th Congress, 2d session.) \* Paper, \$1.00. ● Item 1000  
L.C. card 64-62713 Y 4.Ec 7: T 19/5

## HOUSE OF REPRESENTATIVES

Washington, D.C. 20515

- 17443 Major legislative actions, 88th Congress up to Sept. 15, 1964; prepared by Office of Coordinator of Information. [1964.] 42 p. 4° ‡  
L.C. card 50-60030 Y 1.2: L 52/964-5

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*House bills*

NOTE.—The following list includes all public bills and resolutions introduced during the period of this catalog with the exception of those which were identical with bills and resolutions previously introduced. Amendments are not listed.

For information concerning bills, see (1) House calendar, (2) Congressional record index, or (3) Digest of public general bills prepared by the Legislative Reference Service, Library of Congress.

Depository libraries should consult the depository shipping lists for a complete list of bills and resolutions sent to them by the Superintendent of Documents.

- 17444 H.R. 12265, 12270, 12273, 12275, 12277, 12279, 12205, 12317-19, 12337, 12342, 12375, 12393, 12395, 12402-9, 12416-24, 12435-44, 12458-77, 12491-96, 12503, 12505-13, 12542-46, 12560-67, 12576-79, 12583-87, 12589-94, 12608-10, 12618-20, 12624, 12633, H. Con. Res. 341-342, 352-363, H. Joint Res. 1150-1151, 1155, 1157, 1159-1176, H. Res. 837-838, 842-844, 846, 848, 850, 856-884. 88th Congress. ● Item 1006.

*House documents*

NOTE.—All House documents, entries for which are followed by a †, may be obtained from the House Document Room or from the issuing office.

*House documents, 88th Congress.*

- 17445 185. Statistical abstract of United States, 1964 [with guides to sources of statistics and State statistical abstracts]. 85th annual edition. [1964.] [1]+xii+1041 p. il. [Prepared under direction of Edwin D. Goldfield, chief, Statistical Reports Division, Census Bureau.] \* (Available in departmental edition, Cloth, \$3.75, C 3.134: 964, and sent to depositories in that form. See Entry no. 17113).
- 17446 188. U.S. participation in UN, report by the President to Congress, 1963. [Aug. 1964.] xvii+433 p. il. ([International organization and conference series 51: State Dept. publication 7675.]) \* (Available in departmental edition, \$1.25, S. 1.70: 51, and sent to depositories in that form. See Entry no. 18959.)
- 17447 189. Declaration of Independence and Constitution of United States of America [as amended to Jan. 23, 1964.] [1964.] [7]+54 p. \* Paper, 40c. (To be sent to depository libraries in Serial set binding.) L.C. card 64-62454
- 17448 200. Semiannual report of National Advisory Council on International Monetary and Financial Problems, letter from Secretary of Treasury, transmitting report on activities for period July 1-Dec. 31, 1963; June 23, 1964. 1964. vii+56 p. † ● Item 996  
L.C. card 47-32944
- 17449 274. Merchant vessels of United States, 1964, including yachts: Jan. 1, 1964. 1964. v+1267 p. oblong 8° \* (Available in departmental edition, Cloth, \$7.25, T 17.11/2: 964, and sent to depositories in that form. See Entry no. 17895.)
- 17450 279. Farmer's world, yearbook of agriculture 1964; [Alfred Stefferud, editor]. [1964.] xiv+[1]+592 p. il. [Yearbook is made up of signed articles.] \* (Available in departmental edition, Cloth, \$3.00, A1.10: 964, and sent to depositories in that form. See Entry no. 16952.)
- 17451 295. Tualatin project, Oreg., letter from Assistant Secretary of Interior transmitting report; Apr. 8, 1964. 1964. xxiii+196 p. il. 2 pl. 2 maps. [One map is colored.] † ● Item 996  
L.C. card 64-62654
- 17452 296. Kennewick division extension, Yakima project, Wash., letter from Assistant Secretary of Interior, transmitting report; Apr. 13, 1964. 1964. xl+103 p. il. 1 pl. 2 maps. † ● Item 996  
L.C. card 64-62572
- 17453 308, [pt. 2]. Mississippi River and Tributaries project, letter from chief of engineers, Army, submitting report on review of project, v. 2; May 21, 1964. 1964. iii+[122] p. il. 55 pl., map 4° [Also issued in departmental edition and sent to depositories in that form. See Entry no. 17946.] †
- 17454 308, [pt. 3.] Same: v. 3; May 21, 1964. 1964. [602] p. il. 41 p. of pl. and maps, 4° [Also issued in departmental edition and sent to depositories in that form. See Entry no. 17947.] †
- 17455 308, [pt. 5.] Same: v. 5; May 21, 1964. 1964. † [304] p. il. 18 pl. 4° [Also issued in departmental edition and sent to depositories in that form. See Entry no. 17948.] †
- 17456 308, [pt. 6.] Same: v. 6; May 21, 1964. 1964. [80] p. 2 pl. 2 maps, 4° [Also issued in departmental edition and sent to depositories in that form. See Entry no. 17949.] †
- 17457 323. Hunting Island Beach, S.C., letter from chief of engineers, Army, submitting report on cooperative beach erosion control study; July 20, 1964. 1964. x+64 p. 4 pl. 4° [Also issued in departmental edition and sent to depositories in that form. See Entry no. 17944.] †

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# GOVERNMENT PUBLICATIONS

## House documents, 88th Congress—Continued

- 17458 328. Ouachita River, Monroe, La., letter from chief of engineers, Army, submitting report on review of report; July 20, 1964. 1964. xii+96 p. il. 3 pl. 4° [Also issued in departmental edition and sent to depositories in that form. See Entry no. 17951.] †
- 17459 329. East St. Louis and vicinity, Ill., (East Side Levee and Sanitary District), letter from chief of engineers, Army, submitting report on interim report; July 20, 1964. 1964. xiii+191 p. il. 3 pl. map, 4° [Also issued in departmental edition and sent to depositories in that form. See Entry no. 17943.] †
- 17460 332. St. Lawrence Seaway Development Corporation, annual report for year ended Dec. 31, 1963; Aug. 3, 1964. 1964. ix+28 p. il. † (Available in departmental edition, 25c., Y 3.Sa 2:1/963. See Entry no. 18934).  
● Item 996  
L.C. card 56-61321
- 17461 333. Preserving peace in southeast Asia. Aug. 5, 1964. 3 p. [Corrected print.] † ● Item 996
- 17462 334. Anthony F. Bernardo and Ambrose A. Cerrito, message from President of United States returning without approval bill (H.R. 4501). Aug. 6, 1964. 2 p. † ● Item 996
- 17463 336. Catalina Properties, Inc., message from President of United States returning without approval H.R. 2262. Aug. 12, 1964. 2 p. † ● Item 996
- 17564 337. Economic opportunity act of 1964, proposed appropriation for fiscal year 1965 to finance programs authorized. Aug. 12, 1964. 3 p. † ● Item 996
- 17465 338. Supplementary appropriations for Executive Branch [fiscal years 1965 and 1966] and District of Columbia [fiscal year 1965]. Aug. 12, 1964. 10 p. † ● Item 996
- 17466 339. Claims and judgments, proposed supplemental appropriation to pay claims and judgments rendered against United States. Aug. 14, 1964. 12 p. † ● Item 996
- 17467 348. Delaware River and Bay, Pa., N.J., and Del., letter from chief of engineers, Army, submitting report on interim hurricane survey and review of reports; Aug. 17, 1964. [1964.] xii+122 p. il. 3 pl. 4° [Also issued in departmental edition and sent to depositories in that form. See Entry no. 17942.] †
- 17468 349. Proposed supplemental appropriation for Securities and Exchange Commission, fiscal year 1965. Aug. 17, 1964. 2 p. † ● Item 996
- 17469 350. Tidewater portions of Patuxent, Potomac, and Rappahannock Rivers including adjacent Chesapeake Bay shoreline, interim hurricane survey, letter from chief of engineers, Army, submitting report; Aug. 19, 1964. 1964. xi+61 p. il. 3 pl. 4° [Also issued in departmental edition and sent to depositories in that form. See Entry no. 17957.] †
- 17470 351. Kaskaskia River levees, Ill., letter from chief of engineers, Army, submitting report on survey; Aug. 19, 1964. 1964. ix+19 p. il. 4° [Also issued in departmental edition and sent to depositories in that form. See Entry no. 17945.] †
- 17471 352. Rocky River Harbor, Ohio, letter from chief of engineers, Army, submitting report on interim report; Aug. 19, 1964. 1964. x+58 p. il. 1 pl. 4° [Also issued in departmental edition and sent to depositories in that form. See Entry no. 17956.] †
- 17472 356. World Communist movement, selective chronology 1818-1957 [with key to sources]; prepared by [Joseph G. Whelan], Legislative Reference Service, Library of Congress. ● Item 996  
L.C. card 60-62050  
v. 2. 1946-50. 1963. xvi+223-486 p. \* (Available in committee print edition, 75c., Y 4.Unl/2:C 73/114/v.2. See Entry 8403 in May 1964 Monthly catalog.)  
v. 3. 1951-53. 1964. xvi+487-776 p. \* (Available in committee print edition, \$1.00, Y 4.Unl/2:C73/114/v. 3. See Entry 8403 in May 1964 Monthly catalog.)
- 17473 360. Eleventh annual report of Corregidor-Bataan Memorial Commission, message from President of United States transmitting report; Sept. 8, 1964. 1964. iii+2 p. † ● Item 996  
L.C. card 59-60660

## House reports

NOTE.—For titles of bills which these reports accompany, see Congressional record index.

House reports on private bills, 88th Congress. † House Document Room, Capitol. ● Item 1008-B

- 17474 1766. Authorizing certain retired and other personnel of Government to accept and wear decorations, presents, and other things tendered them by certain foreign countries. Report from Committee on Foreign Affairs to accompany H.R. 12342. Aug. 11, 1964. 2 p.

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- 17475 1805. Providing for conveyance of certain land of United States to Pascua Yaqui Association, Inc. Report from Committee on Interior and Insular Affairs to accompany H.R. 6233. Aug. 14, 1964. 6 p.
- 17476 1830. Providing tax relief for Southeast Community Hospital. Report from Committee on District of Columbia to accompany S. 2944. Aug. 19, 1964. 2 p.
- 17477 1849. Yih-Ho Pao and his wife, Joanne T. Pao. Report from Committee on Judiciary to accompany S. 584. Sept. 1, 1964. 6 p.
- 17478 1850. Arthur Wendell Bolta. Report from Committee on Judiciary to accompany S. 1737. Sept. 1, 1964. 7 p.
- 17479 1851. Glenda Williams. Report from Committee on Judiciary to accompany S. 1966. Sept. 1, 1964. 7 p.
- 17480 1852. Hattie Lu. Report from Committee on Judiciary to accompany S. 1986. Sept. 1, 1964. 6 p.
- 17481 1853. Francisco Navarro-Paz. Report from Committee on Judiciary to accompany S. 1999. Sept. 1, 1964. 5 p.
- 17482 1854. Alexa Daniel. Report from Committee on Judiciary to accompany S. 2163. Sept. 1, 1964. 6 p.
- 17483 1855. Giuseppe DiCenso. Report from Committee on Judiciary to accompany S. 2205. Sept. 1, 1964. 6 p.
- 17484 1856. Denise Hojebane Barrood. Report from Committee on Judiciary to accompany S. 2599. Sept. 1, 1964. 6 p.
- 17485 1857. Czeslaw (Chester) Kaluzny. Report from Committee on Judiciary to accompany S. 2629. Sept. 1, 1964. 5 p.
- 17486 1858. Debra Lynne Sanders. Report from Committee on Judiciary to accompany S. 2673. Sept. 1, 1964. 10 p.
- 17487 1859. Joanne Irene Taylor. Report from Committee on Judiciary to accompany S. 2812. Sept. 1, 1964. 5 p.
- 17488 1860. Certain employees of Alaska Railroad. Report from Committee on Judiciary to accompany S. 1640. Sept. 1, 1964. 9 p.
- 17489 1861. Honorata A. Vda de Narra. Report from Committee on Judiciary to accompany S. 2063. Sept. 1, 1964. 10 p.
- 17490 1862. Withdrawing suspension of deportation of Joe Quong. Report from Committee on Judiciary to accompany S. Con. Res. 66. Sept. 1, 1964. 6 p.
- 17491 1863. Uichi Kayahara. Report from Committee on Judiciary to accompany H.R. 2306. Sept. 1, 1964. 3 p.
- 17492 1864. George A. Grabert. Report from Committee on Judiciary to accompany H.R. 4758. Sept. 1, 1964. 3 p.
- 17493 1865. Robert J. Beas. Report from Committee on Judiciary to accompany H.R. 5853. Sept. 1, 1964. 3 p.
- 17494 1866. Mrs. Maria Eduvigis Aran Heffernan. Report from Committee on Judiciary to accompany H.R. 5978. Sept. 1, 1964. 4 p.
- 17495 1867. Rev. Donald Aksel Olsen. Report from Committee on Judiciary to accompany H.R. 6008. Sept. 1, 1964. 5 p.
- 17496 1868. Lynette Margaret Warrilow. Report from Committee on Judiciary to accompany H.R. 8967. Sept. 1, 1964. 5 p. [H.R. 8967, as amended by the committee, provides for relief of Lynette Margaret Warrilow and her child, Michael Warrilow, and amended the title accordingly.]
- 17497 1869. Stalman Bros.-Simon Wrecking Co. Report from Committee on Judiciary to accompany H.R. 9029. Sept. 1, 1964. 6 p.
- 17498 1870. C. R. Sheaffer & Sons. Report from Committee on Judiciary to accompany H.R. 9647. Sept. 1, 1964. 4 p.
- 17499 1871. Sgt. Donald R. Hurtle, U.S. Marine Corps. Report from Committee on Judiciary to accompany H.R. 10198. Sept. 1, 1964. 7 p.
- 17500 1872. Gerald St. John. Report from Committee on Judiciary to accompany H.R. 10242. Sept. 1, 1964. 4 p.
- 17501 1873. Joseph B. Stevens. Report from Committee on Judiciary to accompany H.R. 10725. Sept. 1, 1964. 5 p.
- 17502 1874. John Henry Taylor. Report from Committee on Judiciary to accompany H.R. 10879. Sept. 1, 1964. 3 p.
- 17503 1875. Relief of certain aliens. Report from Committee on Judiciary to accompany H. J. Res. 1157. Sept. 1, 1964. 26 p.
- 17504 1876. Louis St. Laurent. Report from Committee on Judiciary to accompany H.R. 6184. Sept. 1, 1964. 3 p. [H.R. 6184, as amended by the committee, provides for relief of Louis Stephen Edouard St. Laurent, and amended the title accordingly.]
- 17505 1879. For relief of certain aliens. Report from Committee on Judiciary to accompany H.J. Res. 1159. Sept. 2, 1964. 14 p.
- 17506 1883. Favoring suspension of deportation of certain aliens. Report from Committee on Judiciary to accompany S. Con. Res. 92. Sept. 3, 1964. 3 p.

House reports on public bills, 88th Congress. † House Document Room, Capitol. (No. 1816 is sold by Superintendent of Documents.) ● Item 1008-A

- 17507 1573. Exempt Woodrow Wilson House from taxation. Report from Committee on District of Columbia to accompany H.R. 9975. July 23, 1964. 3 p.
- 17508 1648. Removing certain inequities with respect to longevity compensation of certain members of Capitol Police. Report from Committee on House Administration to accompany H. Res. 719. Aug. 4, 1964. 1 p.

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# GOVERNMENT PUBLICATIONS

## House reports on public bills, 88th Congress—Continued

- 17509 1649. Authorizing expenditures incurred by Special Committee to investigate Campaign Expenditures to be paid from contingent fund of House. Report from Committee on House Administration to accompany H. Res. 800. Aug. 4, 1964. 1 p.
- 17510 1650. Authorizing printing of United States defense policies in 1963 as House document. Report from Committee on House Administration to accompany H. Res. 730. Aug. 4, 1964. 1 p.
- 17511 1652. Authorizing printing of additional copies of hearings on interagency coordination in environmental hazards (pesticides), pt. 1 (including exhibits). Report from Committee on House Administration to accompany S. Con. Res. 83. Aug. 4, 1964. 1 p.
- 17512 1654. Authorizing printing of additional copies of committee print entitled Report of study of United States foreign aid in 10 Middle Eastern and African countries. Report from Committee on House Administration to accompany S. Con. Res. 88. Aug. 4, 1964. 1 p.
- 17513 1655. Printing additional copies of volumes 1 and 2 of selected readings in employment and manpower of committee print series. Report from Committee on House Administration to accompany S. Con. Res. 90. Aug. 4, 1964. 1 p.
- 17514 1732. District of Columbia appropriation bill 1965. Conference report to accompany H.R. 10199. Aug. 11, 1964. 5 p.
- 17515 1733. Alaska Centennial Commission. Report from Committee on Judiciary to accompany S. 49. Aug. 11, 1964. 2 p.
- 17516 1734. Display of flag at Lexington, Mass. Report from Committee on Judiciary to accompany H.R. 11327. Aug. 11, 1964. 1 p.
- 17517 1735. Leif Erikson Day. Report from Committee on Judiciary to accompany H.J. Res. 393. Aug. 11, 1964. 1 p.
- 17518 1736. White Cane Safety Day. Report from Committee on Judiciary to accompany H.J. Res. 753. Aug. 11, 1964. 1 p.
- 17519 1737. International Exposition for Southern California. Report from Committee on Foreign Affairs to accompany H.J. Res. 952. Aug. 11, 1964. 6 p.
- 17520 1738. Providing for appointment of commissioner general for U.S. participation in Canadian Universal and International Exhibition. Report from Committee on Foreign Affairs to accompany H.R. 11707. Aug. 11, 1964. 4 p.
- 17521 1740. Expansion of Federal crop insurance coverage. Report from Committee on Agriculture to accompany S. 277. Aug. 11, 1964. 8 p.
- 17522 1741. Retroceding to Kansas exclusive jurisdiction over certain highways bordering Fort Leavenworth Military Reservation. Report from Committee on Armed Services to accompany S. 2369. Aug. 11, 1964. 4 p.
- 17523 1743. Stabilize and improve county ASC committee system. Report from Committee on Agriculture to accompany H.R. 9178. Aug. 11, 1964. 5 p.
- 17524 1744. Authorization for Secretary of Army to acquire YMCA building on Fort Jay Military Reservation. Report from Committee on Armed Services to accompany H.R. 9803. Aug. 11, 1964. 4 p.
- 17525 1745. Repealing recapture provision of land to be transferred from Navy Department to Massachusetts Port Authority. Report from Committee on Armed Services to accompany H.R. 11338. Aug. 11, 1964. 8 p.
- 17526 1746. Authorizing exchange of lands between Navy Department and California. Report from Committee on Armed Services to accompany H.R. 11594. Aug. 11, 1964. 4 p.
- 17527 1747. Whitestone Coulee unit of Okanogan-Similkameen division, Chief Joseph Dam project, Wash. Report from Committee on Interior and Insular Affairs to accompany H.R. 5118. Aug. 11, 1964. 9 p.
- 17528 1749. Authorizing disposal of antimony from national stockpile. Report from Committee on Armed Services to accompany H.R. 11913. Aug. 11, 1964. 10 p.
- 17529 1750. Authorizing disposal of sisal from national stockpile. Report from Committee on Armed Services to accompany H.R. 12091. Aug. 11, 1964. 6 p.
- 17530 1751. Establishing program of cash awards for members of Armed Forces and for other purposes. Report from Committee on Armed Services to accompany H.R. 12193. Aug. 11, 1964. 11 p.
- 17531 1752. Authorizing disposal of portions of 10 materials from national stockpile. Report from Committee on Armed Services to accompany H. Con. Res. 320. Aug. 11, 1964. 10 p.
- 17532 1753. Increasing participation by counties in revenues from national wildlife refuge system. Report from Committee on Merchant Marine and Fisheries to accompany S. 1363. Aug. 11, 1964. 23 p.  
L.C. card 64-62566
- 17533 1754. Flight service stations (evaluation of FAA facilities). Report of Committee on Interstate and Foreign Commerce pursuant to sec. 136 of Legislative reorganization act of 1946, Public law 601, 79th Congress, and House resolution 17, 88th Congress; Aug. 11, 1964. 1964. [2]+15 p.  
L.C. card 64-62563
- 17534 1755. Authorizing exchange of land between Navy Department and Sunnyvale, Calif. Report from Committee on Armed Services to accompany H.R. 12278. Aug. 11, 1964. 4 p.

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- 17535 1756. Expressing sense of Congress with respect to enforcement of provisions of art. 19 of United Nations charter. Report from Committee on Foreign Affairs to accompany H. Con. Res. 343. Aug. 11, 1964. 4 p.
- 17536 1757. Authorization of urban soil surveys. Report from Committee on Agriculture to accompany H.R. 5406. Aug. 11, 1964. 3 p.
- 17537 1758. Addition to Everglades National Park. Report from Committee on Agriculture to accompany H.R. 8290. Aug. 11, 1964. 3 p.
- 17538 1759. Determination of claims of U.S. nationals against Government of Cuba. Report from Committee on Foreign Affairs to accompany H.R. 12259. Aug. 11, 1964. 37 p.  
L.C. card 64-62561
- 17539 1760. Consideration of S. 1451. Report from Committee on Rules to accompany H. Res. 836. Aug. 11, 1964. 1 p.
- 17540 1761. Consideration of S. 1686. Report from Committee on Rules to accompany H. Res. 837. Aug. 11, 1964. 1 p.
- 17541 1762. Consideration of H.R. 8068. Report from Committee on Rules to accompany H. Res. 838. Aug. 11, 1964. 1 p.
- 17542 1763. Consideration of H.R. 9586. Report from Committee on Rules to accompany H. Res. 839. Aug. 11, 1964. 1 p.
- 17543 1764. Consideration of H.R. 9752. Report from Committee on Rules to accompany H. Res. 840. Aug. 11, 1964. 1 p.
- 17544 1765. Consideration of H.R. 12175. Report from Committee on Rules to accompany H. Res. 841. Aug. 11, 1964. 1 p.
- 17545 1767, pt. 2. Extension and amendment of Public law 480. Report, additional views from Committee on Agriculture to accompany H.R. 12298. Aug. 12, 1964. 3 p.  
L.C. card 64-62568
- 17546 1768. Authorizing Secretary of Interior to initiate program for conservation, development, and enhancement of Nation's anadromous fish. Report from Committee on Merchant Marine and Fisheries to accompany H.R. 2392. Aug. 12, 1964. 15 p.  
L.C. card 64-62565
- 17547 1769. Loans to students of optometry. Report from Committee on Interstate and Foreign Commerce to accompany H.R. 8546. Aug. 12, 1964. 7 p.  
L.C. card 64-62564
- 17548 1770. Food additives transitional provisions amendment of 1964. Report from Committee on Interstate and Foreign Commerce to accompany H.R. 12035. Aug. 12, 1964. 8 p.
- 17549 1771. Classification of certain positions under House of Representatives. Report from Committee on House Administration to accompany H.R. 12318. Aug. 12, 1964. 16 p.  
L.C. card 64-62475
- 17550 1772. Consideration of H.R. 11893. Report from Committee on Rules to accompany H. Res. 843. Aug. 12, 1964. 1 p.
- 17551 1773. Authorizing Smithsonian Institution to employ aliens in scientific or technical capacity. Report from Committee on House Administration to accompany H.R. 10178. Aug. 12, 1964. 1 p.
- 17552 1774. Authorizing United Spanish War Veterans to erect memorial in District of Columbia, or its environs. Report from Committee on House Administration to accompany H.J. Res. 793. Aug. 12, 1964. 2 p.
- 17553 1775. Placing temporarily in rotunda of Capitol statue of Father Eusebio Francisco Kino, and hold ceremonies on such occasion. Report from Committee on House Administration to accompany H. Con. Res. 273. Aug. 12, 1964. 1 p.
- 17554 1776. Accepting statue of Father Eusebio Francisco Kino, of Arizona, presented by Arizona, to be placed in Statuary Hall. Report from Committee on House Administration to accompany H. Con. Res. 274. Aug. 12, 1964. 3 p.
- 17555 1777. Providing for placement of memorial tablet in U.S. Capitol in honor of troops quartered in Capitol during Civil War. Report from Committee on House Administration to accompany H. Res. 530. Aug. 12, 1964. 2 p.
- 17556 1778. Amending act authorizing Crooked River Federal reclamation project to provide for irrigation of additional lands. Report from Committee on Interior and Insular Affairs to accompany H.R. 1712. Aug. 12, 1964. 8 p.
- 17557 1779. Authorizing Secretary of Interior to condemn certain property in city of St. Augustine, Fla., within boundary of Castillo de San Marcos National Monument. Report from Committee on Interior and Insular Affairs to accompany S. 2419. Aug. 12, 1964. 3 p.
- 17558 1780. Promoting development of phosphate on public domain. Report from Committee on Interior and Insular Affairs to accompany H.R. 9638. Aug. 12, 1964. 5 p.
- 17559 1781. Independent offices appropriation bill, 1965. Conference report to accompany H.R. 11296. Aug. 12, 1964. 26 p.
- 17560 1782. Providing for printing of proceedings in connection with unveiling of Father Eusebio Francisco Kino, of Arizona, statue. Report from Committee on House Administration to accompany H. Con. Res. 275. Aug. 13, 1964. 1 p.
- 17561 1783. Providing for printing of 4,000 additional copies of school prayer hearings. Report from Committee on House Administration to accompany H. Con. Res. 336. Aug. 13, 1964. 1 p.

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- 17562 1784. Authorizing printing of additional copies of hearings on Federal reserve system. Report from Committee on House Administration to accompany H. Con. Res. 330. Aug. 13, 1964. 1 p.
- 17563 1785. Authorizing printing of additional copies of hearings on Federal reserve system. Report from Committee on House Administration to accompany H. Con. Res. 346. Aug. 13, 1964. 1 p.
- 17564 1786. Authorizing printing of additional copies of House report 176, 88th Congress, 1st session, entitled Annual report for year 1962, Committee on Un-American Activities. Report from Committee on House Administration to accompany H. Con. Res. 347. Aug. 13, 1964. 1 p.
- 17565 1787. Printing as House documents publications World communist movement, selective chronology, 1818-1957, v. 2 and 3, and provide for printing of additional copies. Report from Committee on House Administration to accompany H. Con. Res. 348. Aug. 13, 1964. 1 p.
- 17566 1788. Authorizing printing of additional copies of Communist economic warfare, consultation with Robert Loring Allen, Apr. 6, 1960. Report from Committee on House Administration to accompany H. Res. 826. Aug. 13, 1964. 1 p.
- 17567 1789. Authorizing printing of additional copies of publication entitled Irrationality of Communism, consultation with Gerhart Niemeyer, Aug. 8, 1958. Report from Committee on House Administration to accompany H. Res. 827. Aug. 13, 1964. 1 p.
- 17568 1790. Authorizing printing of additional copies of publication entitled Communist in workers' paradise, John Santo's own story, 88th Congress, 1st session. Report from Committee on House Administration to accompany H. Res. 828. Aug. 13, 1964. 1 p.
- 17569 1791. Authorizing printing of compilation of works of art and other objects in U.S. Capitol, as House document, and for other purposes. Report from Committee on House Administration to accompany H. Con. Res. 350. Aug. 13, 1964. 2 p.
- 17570 1792. Report of changes in control of federally insured banks. Report from Committee on Banking and Currency to accompany H.R. 12267. Aug. 13, 1964. 9 p.  
L.C. card 64-62570
- 17571 1793. Extending Osage mineral reservation for indefinite period. Report from Committee on Interior and Insular Affairs to accompany H.R. 10204. Aug. 13, 1964. 4 p.
- 17572 1794. Public works appropriation bill, 1965. Conference report to accompany H.R. 11579. Aug. 13, 1964. 44 p.
- 17573 1795. Consideration of H.R. 3869. Report from Committee on Rules to accompany H. Res. 850. Aug. 13, 1964. 1 p.
- 17574 1796. Consideration of H.R. 7107. Report from Committee on Rules to accompany H. Res. 851. Aug. 13, 1964. 1 p.
- 17575 1797. Consideration of H.R. 11904. Report from Committee on Rules to accompany H. Res. 852. Aug. 13, 1964. 1 p.
- 17576 1798. Authorizing Committee on Judiciary to conduct, within or without United States, studies and investigations in certain matters under its jurisdiction. Report from Committee on Rules to accompany H. Res. 809. Aug. 13, 1964. 1 p.
- 17577 1799. Consideration of H.R. 11926. Report from Committee on Rules to accompany H. Res. 845. Aug. 13, 1964. 1 p. [Relates to defining jurisdiction of Supreme Court and all Federal courts inferior thereto.]
- 17578 1800. Authorizing per capita distribution of \$350 from funds arising from judgments in favor of any of Confederate Tribes of Colville Reservation. Report from Committee on Interior and Insular Affairs to accompany S. 1169. Aug. 13, 1964. 3 p.
- 17579 1801. Providing for disposition of judgment funds on deposit to credit of Northern Cheyenne Tribe of Tongue River Indian Reservation, Mont. Report from Committee on Interior and Insular Affairs to accompany S. 2961. Aug. 13, 1964. 4 p.
- 17580 1802. Articles imported for use of certain universities. Conferences report to accompany H.R. 4364. Aug. 13, 1964. 2 p.
- 17581 1803. International coffee agreement act of 1964. Conference report to accompany H.R. 8864. Aug. 13, 1964. 2 p.
- 17582 1806. Encouraging certain physicians and dentists to practice in areas having shortage of physicians or dentists. Report from Committee on Interstate and Foreign Commerce to accompany S. 2220. Aug. 14, 1964. 8 p.
- 17583 1807. Elimination of restriction against payment of social security benefits to spouses of retired railroad employees. Report from Committee on Interstate and Foreign Commerce to accompany H.R. 12362. Aug. 14, 1964. 5 p.
- 17584 1808. Providing additional funds for further expense of studies and investigations authorized by House resolution 38. Report from Committee on House Administration to accompany H. Res. 820. Aug. 14, 1964. 1 p.
- 17585 1809. Providing for expenses of investigation authorized by House resolution 103. Report from Committee on House Administration to accompany H. Res. 813. Aug. 14, 1964. 1 p.
- 17586 1810. To amend House Resolution 444, 88th Congress. Report from Committee on House Administration to accompany H. Res. 825. Aug. 14, 1964. 1 p.

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- 17587 1811. Authorizing certain payments from contingent fund of House. Report from Committee on House Administration to accompany H. Res. 833. Aug. 14, 1964. 1 p.
- 17588 1812. Authorizing temporary employment of additional clerks in House post office. Report from Committee on House Administration to accompany H. Res. 832. Aug. 14, 1964. 1 p.
- 17589 1813. Relating to clerk hire allowance of Members of House of Representatives and Resident Commissioner from Puerto Rico. Report from Committee on House Administration to accompany H. Res. 294. Aug. 14, 1964. 1 p.
- 17590 1814. Reimbursing Members of House of Representatives for office expenses outside District of Columbia. Report from Committee on House Administration to accompany H. Res. 831. Aug. 14, 1964. 1 p.
- 17591 1815. Providing for expenses of investigation authorized by House resolution 103. Report from Committee on House Administration to accompany H. Res. 663. Aug. 14, 1964. 1 p.
- 17592 1816. Interest equalization tax act. Conference report to accompany H.R. 8000. Aug. 15, 1964. 19 p. \* Paper, 10c.  
L.C. card 64-62453
- 17593 1818. Disposition of sundry papers. Report from Joint Committee on Disposition of Executive Papers. Aug. 17, 1964. 2 p.
- 17594 1819. Amending act of Dec. 22, 1928, relating to issuance of patents for lands held under color of title, to liberalize requirements for conveyance of mineral estate. Report from Committee on Interior and Insular Affairs to accompany H.R. 8526. Aug. 17, 1964. 10 p.  
L.C. card 64-62472
- 17595 1820. Conservation of wildlife resources. Conference report to accompany S. 793. Aug. 17, 1964. 3 p.
- 17596 1821. Seneca Indian Nation. Conference report to accompany H.R. 1794. Aug. 17, 1964. 4 p. [Corrected print.]
- 17597 1822. Electricity in Pacific Northwest. Conference report to accompany S. 1007. Aug. 17, 1964. 11 p. il. [Corrected print.]  
L.C. card 64-62452
- 17598 1823. Canyonlands National Park, Utah. Report from Committee on Interior and Insular Affairs to accompany H.R. 6925. Aug. 17, 1964. 15 p.  
L.C. card 64-62476
- 17599 1825. Authorizing removal of flight hazard at Naval Air Station, Norfolk, Va. Report from Committee on Armed Services to accompany H.R. 12308. Aug. 18, 1964. 5 p.
- 17600 1826. Auburn-Folsom South unit, American River division, Central Valley project, Calif. Report from Committee on Interior and Insular Affairs to accompany H.R. 2411. Aug. 18, 1964. 20 p.  
L.C. card 64-62562
- 17601 1827. Amending act of Mar. 10, 1964. Report from Committee on Interior and Insular Affairs to accompany H.R. 12128. Aug. 18, 1964. 8 p.
- 17602 1828. Housing act of 1964. Conference report to accompany S. 3049. Aug. 18, 1964. 50 p.  
L.C. card 64-62501
- 17603 1829. Establish National Wilderness Preservation System. Conference report to accompany S. 4. Aug. 19, 1964. 11 p.  
L.C. card 64-62569
- 17604 1831. Military construction appropriation bill, 1965. Conference report to accompany H.R. 11369. Aug. 19, 1964. 6 p.
- 17605 1832. Department of Agriculture and related agencies appropriation bill, 1965. Conference report to accompany H.R. 11202. Aug. 19, 1964. 11 p.
- 17606 1834. Naming Eufaula National Wildlife Refuge. Report from Committee on Merchant Marine and Fisheries to accompany H. Res. 798. Aug. 20, 1964. 2 p.
- 17607 1835. Consideration of H.R. 11946. Report from Committee on Rules to accompany H. Res. 861. Aug. 20, 1964. 1 p.
- 17608 1836. Consideration of H.R. 12298. Report from Committee on Rules to accompany H. Res. 865. Aug. 20, 1964. 1 p.
- 17609 1837. Consideration of S. 2220. Report from Committee on Rules to accompany H. Res. 866. Aug. 20, 1964. 1 p.
- 17610 1838. Consideration of H.R. 12033. Report from Committee on Rules to accompany H. Res. 867. Aug. 20, 1964. 1 p.
- 17611 1839. Consideration of H.R. 12362. Report from Committee on Rules to accompany H. Res. 868. Aug. 20, 1964. 1 p.
- 17612 1840. Consideration of H.R. 4994. Report from Committee on Rules to accompany H. Res. 869. Aug. 20, 1964. 1 p.
- 17613 1841. District of Columbia police and firemen's salary act, District of Columbia teachers' salary act. Conference report to accompany H.R. 12196. Aug. 20, 1964. 9 p.
- 17614 1842. Release of liability under certain bonds; reacquisitions of real property. Conference report to accompany H.R. 4844. Aug. 20, 1964. 4 p.
- 17615 1843. Corrections of certain inequities in taxation of life insurance companies. Conference report to accompany H.R. 5739. Aug. 20, 1964. 6 p.
- 17616 1844. Accrued vacation pay. Conference report to accompany H.R. 10467. Aug. 20, 1964. 3 p.
- 17617 1845. Requiring premarital examinations in District of Columbia. Report from Committee on District of Columbia to accompany H.R. 11302. Aug. 21, 1964. 2 p.

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- 17618 1846. Amending District of Columbia sales tax act. Report from Committee on District of Columbia to accompany H.R. 12371. Aug. 21, 1964. 4 p.
- 17619 1847. Land and water conservation fund. Conference report to accompany H.R. 3846. Aug. 31, 1964. 5 p.
- 17620 1848. Disposition of sundry papers. Report from Joint Committee on Disposition of Executive Papers. Sept. 1, 1964. 2 p.
- 17621 1877. Water resources planning act. Report from Committee on Interior and Insular Affairs to accompany S. 1111. Sept. 2, 1964. 34 p. L.C. card 64-62718
- 17622 1878. Lewis and Clark Trail Commission. Report from Committee on Interior and Insular Affairs to accompany H.R. 12289. Sept. 2, 1964. 5 p.
- 17623 1880. Departments of Labor, and Health, Education, and Welfare, and related agencies appropriation bill, 1965. Conference report to accompany H.R. 10809. Sept. 2, 1964. 10 p.
- 17624 1881. Canyonlands National Park, Utah. Conference report to accompany S. 27. Sept. 2, 1964. 9 p.
- 17625 1882. Providing for construction of Lower Teton division of Teton Basin Federal reclamation project, Idaho. Conference report to accompany S. 1123. Sept. 2, 1964. 4 p.
- 17626 1884. Designating as Clair Engle Lake the reservoir created by Trinity Dam, Central Valley project, Calif. Report from Committee on Interior and Insular Affairs to accompany H.R. 12471. Sept. 3, 1964. 3 p.
- 17627 1885. Federal water pollution control act, amendments. Report from Committee on Public Works to accompany S. 649. Sept. 4, 1964. 29 p. [Includes minority and supplemental views.]
- 17628 1886. Acceptance of gifts and bequests by Secretary of Commerce. Report from Committee on Interstate and Foreign Commerce to accompany S. 2049. Sept. 10, 1964. 7 p.

## *Appropriations Committee, House*

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- 17629 Child Research Center, National Institutes of Health, hearings before subcommittee, 88th Congress, 2d session. 1964. ii+23 p. † ● Item 1011  
L.C. card 64-62299 Y 4.Ap 6/1: C 43
- 17630 Department of Agriculture appropriations for 1965, hearings before subcommittee, 88th Congress, 2d session. † ● Item 1011  
L.C. card 60-60821 Y 4.Ap 6/1: Ag 8/965/pt.6  
pt. 6. Amendments to budget. 1964. ii+217+iii p. il.
- 17631 Supplemental appropriation bill, 1965, hearings before subcommittees, 88th Congress, 2d session. † ● Item 1011  
L.C. card 64-62624 Y 4.Ap 6/1: Ap 6/2/965/pt. (nos.)  
pt. 1. 1964. ii+409+v p.  
pt. 2. 1964. ii+175+iv p.

## *Armed Services Committee, House*

Washington, D.C. 20515

- 17632 Cost of morale and recreation benefits for defense contractor employees, hearings before Subcommittee for Special Investigations, 88th Congress, 2d session, under authority of H. Res. 84, July 21-23, 1964. 1964. iv+156 p. † ● Item 1012  
L.C. card 64-62513 Y 4.Ar 5/2: M 79

[Papers], 88th Congress. † ● Item 1012 Y 4.Ar 5/2a: 963-64/(nos.)

NOTE.—These papers consist largely of hearings. They are paged continuously for binding at the end of session of Congress under title "Hearings before Committee on Armed Services of the House of Representatives on sundry legislation affecting the naval and military establishments." Title page, contents, and index are issued for each volume.

- 17633 57. Full committee consideration of S. 3001. H.R. 9718, H.R. 11064, Senate amendment to H.R. 8954, H.J. Res. 113, H.J. Res. 1048, H.J. Res. 1072, and H.J. Res. 1115. [1964.] p. 9565-88.
- 17634 58. Subcommittee no. 2 consideration of H.R. 9803, H.R. 12091, S. 2369, and H. Con. Res. 320. [1964.] p. 9589-9616.
- 17635 59. Subcommittee no. 2 consideration of H.R. 11594 and H.R. 11338. [1964.] p. 9617-30.
- 17636 60. Subcommittee no. 2 consideration of H.R. 11913 and H.R. 11898, to authorize sale, without regard to 6-month waiting period prescribed, of antimony proposed to be disposed of pursuant to Strategic and critical materials stock piling act. [1964.] p. 9631-55, il.

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- 17637 61. Subcommittee no. 1 consideration of H.R. 12193, to amend title 10, United States Code to provide for establishment of program of cash awards for suggestions or inventions made by members of Armed Forces which contribute to efficiency, economy, or other improvement of Government operations. [1964.] p. 9657-9703.
- 17638 62. Full committee consideration of H.R. 12193, H.R. 9803, H.R. 11338, H.R. 11594, S. 2369, H.R. 11913, H.R. 12091, House concurrent resolution 320, H.R. 12278, and H.R. 12246. [1964.] p. 9705-27.
- 17639 63. Subcommittee no. 2 consideration of H.R. 12308, to authorize removal of flight hazard at Naval Air Station, Norfolk, Va. [1964.] p. 9729-39.
- 17640 64. Hearings before Special Subcommittee on Construction of Military Hospital Facilities of Committee on Armed Services, 88th Congress, 2d session, Apr. 14-July 2, 1964. [1964.] cover title, p. 9741-10352, il.
- 17641 65. Full committee consideration of H.R. 12308, to authorize removal of flight hazard at U.S. Naval Air Station, Norfolk, Va. [1964.] p. 10353-356.
- 17642 66. Ceremony in honor of Carl Vinson, Chairman, Committee on Armed Services, House of Representatives. [1964.] p. 10357-59.

**Banking and Currency Committee, House**

*Washington, D.C. 20515*

- 17643 Inter-American Development Bank act amendment, hearing before Subcommittee on International Finance, 88th Congress, 2d session, on H.R. 12010, Aug. 11, 1964. 1964. iii+115 p. † ● Item 1013  
L.C. card 64-62625 Y 4.B 22/1: In 8/5/964
- 17644 Notice of change in control of management of insured banks, hearing, 88th Congress, 2d session, on H.R. 12267 and H.R. 12268, Aug. 12, 1964. 1964. iii+58 p. † ● Item 1013  
L.C. card 64-62488 Y 4.B 22/1: B 22/7

**Education and Labor Committee, House**

*Washington, D.C. 20515*

- 17645 Overtime penalty pay act of 1964, hearings held jointly before General Subcommittee on Labor and Select Subcommittee on Labor, 88th Congress, 2d session, on H.R. 1680 and H.R. 9802. † ● Item 1015  
L.C. card 64-62514 Y 4.Ed 8/1: P 29/4/pt. (nos.)  
pt. 1. Feb. 17-Mar. 3, 1964. 1964. vi+1-340 p.  
pt. 2. Mar. 13-July 21, 1964. 1964. x+341-905 p. il.
- 17646 To amend and extend National defense education act, hearings before Special Subcommittee on Education, 88th Congress, 1st and 2d sessions, on H.R. 6061, H.R. 9846, and similar bills, May 7, 1963-Mar. 5, 1964. 1964. vii+536 p. il. † ● Item 1015  
L.C. card 64-62628 Y 4.Ed 8/1: N 21d/964

**Foreign Affairs Committee, House**

*Washington, D.C. 20515*

- 17647 Claims of U.S. nationals against Government of Cuba, hearings before Subcommittee on Inter-American Affairs, 88th Congress, 2d session, on H.R. 10327, H.R. 10536, H.R. 10720, H.R. 12259 and H.R. 12260, July 28-Aug. 4, 1964. 1964. iv+176 p. † ● Item 1017  
L.C. card 64-62303 Y 4.F76/1: C 89/5

**Government Operations Committee, House**

*Washington, D.C. 20515*

- 17648 Coin shortage, hearings before subcommittee, 88th Congress, 2d session, June 30-July 2, 1964. 1964. ix+253 p. il. 1 tab. † ● Item 1016  
L.C. card 64-62676 Y 4.G74/7: C 66
- 17649 Expenses of employees assigned to California offshore islands, hearing before subcommittee, 88th Congress, 2d session, on H.R. 11211, H.R. 11404, and H.R. 11506; July 22, 1964. 1964. iii+30 p. † ● Item 1016  
L.C. card 64-62607 Y 4.G74/7: C 12

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- 17650 Satellite communications, 1964, hearings before subcommittee, 88th Congress, 2d session. † ● Item 1016  
L.C. card 64-61926 Y 4.G74/7: C73/3/pt. 2  
pt. 2. Aug. 6, 10-11, 1964. 1964. iv+659-793. p.
- 17651 Submissions of agency accounting systems for GAO approval, hearings before subcommittee, 88th Congress, 2d session, July 2 and 28, 1964. iii+75 p. † ● Item 1016  
L.C. card 64-62627 Y 4.G74/7: Ac 2/2
- 17652 Water pollution control and abatement, hearing before subcommittee, 88th Congress, 1st session. † ● Item 1016  
L.C. card 64-62019 Y 4.G74/7: W 29/pt. 2  
pt. 2. Delaware River Basin, Aug. 9, 1963. 1963 [published 1964]. ix+1843-2081 p. il. 1 pl. 3 maps.

## *Interstate and Foreign Commerce Committee, House*

*Washington, D.C. 20515*

- 17653 Amendments to title 2 of Communications act of 1934 (common carriers), hearings, 88th Congress, 2d session, on H.R. 6018, H.R. 8013, H.R. 10270, Apr. 9, 1964. 1964. iii+118 p. † ● Item 1019  
L.C. card 64-62252 Y 4.In8/4: C 73/17/964-2
- 17654 Flight service stations, hearings before Subcommittee on Transportation and Aeronautics, 88th Congress, 2d session, on present status and future role of Federal Aviation Agency's domestic flight service stations, May 12-27, 1964. 1964. vii+420 p. † ● Item  
L.C. card 64-62605 Y 4.In8/4: F 64/2
- 17655 Organization of Public Health Service, hearings before subcommittee, 88th Congress, 1st session, on H.R. 2410, Apr. 23-June 11, 1963. 1964. vi+460 p. il. † ● Item 1019  
L.C. card 64-62492 Y 4.In8/4: P 96/10/963
- 17656 Unfair commercial activities, hearings before Subcommittee on Commerce and Finance, 88th Congress, 2d session, on H.R. 4651, June 16-17, 1964. 1964. iii+91 p. † ● Item  
L.C. card 64-62608 Y 4.In8/4: C 73/20

## *Judiciary Committee, House*

*Washington, D.C. 20515*

[Committee hearings] serial, 88th Congress. † ● Item 1020

Y 4.J89/1: 88/(nos.)

- 17657 8. Congressional redistricting, hearings before Subcommittee no. 5, 88th Congress, 2d session, on H.R. 699, H.R. 1128, H.R. 2836, H.R. 4340 and H.R. 7343, Mar. 18-19, 1964. 1964. iii+157 p.  
L.C. card 64-62517
- 17658 9. School prayers, hearings, 88th Congress, 2d session, on proposed amendments to Constitution relating to prayers and Bible reading in public schools. 1964.  
L.C. card 64-62497  
pt. 1. Apr. 22-30, 1964. xxxv+1-960 p. \* Paper, \$3.00.  
pt. 2. May 1-15, 1964. xxxv+961-1767 p. il. map on inside of back cover.  
[Map is colored.] \* Paper, \$3.25.  
pt. 3. May 20-June 3, 1964. xxxv+1769-2774 p. il. \* Paper, \$3.00.
- 17659 13. Immigration, hearings before Subcommittee no. 1, 88th Congress, 2d session, on H.R. 7700 and 55 identical bills to amend Immigration and nationality act.  
L.C. card 64-62714  
pt. 1. June 11-30, 1964. 1964. v+383 p.
- 17660 Copyright law revision: pt. 3, Preliminary draft for revised U.S. copyright law and discussions and comments on draft; [Sept. 1964]. 1964. x+457 p. \* Paper, \$1.25.  
L.C. card 61-61901 Y 4.J89/1: C 79/2/pt. 3

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**Post Office and Civil Service Committee, House**

Washington, D.C. 20515

- 17661 Control of labor cost in Department of Defense, hearings before Subcommittee on Manpower Utilization, 88th Congress, 2d session, June 9–Aug. 5, 1964. 1964. iii+370 p. il. † ● Item 1022  
L.C. card 64-62516 Y 4.P84/10: D 36/2
- 17662 Manpower utilization symposium, Subcommittee on Manpower Utilization, 88th Congress, 2d session; Apr. 13, 1964. 1964. iii+98 p. il. (Committee print.) †  
L.C. card 64-62374 Y 4.P84/10: M 31/4/964

**Public Works Committee, House**

Washington, D.C. 20515

[Committee hearings, serial], 88th Congress. † ● Item 1024  
Y 4.P 96/11: 88/(nos.)

- 17663 23. Miscellaneous river and harbor bills, 1964, hearings before Subcommittee on Rivers and Harbors, 88th Congress, 2d session, on H.R. 6197, H.R. 8078, H.R. 9720, H.R. 9934, H. Con. Res. 45, H.R. 10619, Apr. 9 and June 23, 1964. 1964. iii+33 p.  
L.C. card 64-62363
- 17664 24. Vehicular tunnel under U.S. Capitol grounds, hearing before Subcommittee on Public Buildings and Grounds, 88th Congress, 2d session, on H.R. 10392, Apr. 7, 1964. 1964. iii+9 p. map.  
L.C. card 64-62361

**Science and Astronautics Committee, House**

Washington, D.C. 20515

[Papers], 88th Congress, 2d session. † ● Item 1025-A

- 17665 4. Government and science, distribution of Federal research funds, indirect costs re Federal grants, hearings before Subcommittee on Science, Research, and Development, 88th Congress, 2d session, May 5–June 4, 1964. 1964. vi+888 p. il.  
L.C. card 64-62626 Y 4.Sci 2: 88-2/4

**SENATE**

Washington, D.C. 20510

**Senate bills**

NOTE.—The following list includes all public bills and resolutions introduced during the period of this catalog. Amendments are not listed.

For information concerning bills, see (1) Senate calendar, (2) Congressional record index, or (3) Digest of public general bills prepared by the Legislative Reference Service, Library of Congress.

Depository libraries should consult the depository shipping lists for a complete list of the bills and resolutions sent to them by the Superintendent of Documents.

- 17666 S. 3071, 3097, 3103-4, 3114-15, 3122-23, 3129-30, 3134, 3138-40, 3142-43, 3160, 3162, 3173-75, 3183, 3185-86, 3188, 3191-92, 3196-97, S. Con. Res. 96-97, S. Joint Res. 193, 195, 197-203, S. Res. 348-349, 363-369. 88th Congress. ● Item 1006

**Senate documents**

NOTE.—All Senate documents, entries for which are followed by a †, may be obtained from the Senate Document Room or from the issuing office.

Senate documents, 88th Congress.

- 17667 80. Amendment to budget for District of Columbia [fiscal year] 1965. June 17, 1964. 3 p. † ● Item 996
- 17668 87. Mineral and water resources of Nevada [with lists of selected references, by H.R. Cornwall and others]; July 23, 1964. 1964. xi+314 p. il. 1 pl. [Report of Geological Survey in collaboration with Nevada Bureau of Mines prepared at request of Howard W. Cannon of Nevada.] † ● Item 996  
L.C. card 64-62719

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# GOVERNMENT PUBLICATIONS

## Senate documents, 88th Congress—Continued

- 17669 92. Reclamation repayment contracts, compilation, together with explanatory notes on basic features of several types of contracts most frequently entered into, prepared by Bureau of Reclamation. Department of Interior; Aug. 5, 1964. 1964. vii+203 p. il. 6 pl. † ● Item 996 L.C. card 64-62745
- 17670 93. Providence River and Harbor, R.I., letter from chief of engineers, Army, submitting report on review of reports, Aug. 18, 1964. 1964. x+29 p. 1 pl. 4° [Also issued in departmental edition and sent to depositories in that form. See Entry no. 17954.] †
- 17671 94. Perdido Pass Channel, Ala., letter from chief of engineers, Army, submitting report on review of report; Aug. 20, 1964. 1964. ix+57 p. il. 2 maps, 4° [Also issued in departmental edition and sent to depositories in that form. See Entry no. 17953.] †

## Senate reports

NOTE.—For titles of bills which these reports accompany, see Congressional record index.

Senate reports on private bills, 88th Congress. † Senate Document Room, Capitol. ● Item 1008-B

- 17672 1309. Industrial Tractor Parts Co., Inc. Report from Committee on Judiciary to accompany H.R. 4088. Aug. 4, 1964. 4 p.
- 17673 1341. Shu Hsien Chang. Report from Committee on Judiciary to accompany S. 2271. Aug. 7, 1964. 10 p.
- 17674 1389. Joseph Di Ciccio. Report from Committee on Judiciary to accompany H.R. 7088. Aug. 13, 1964. 6 p.
- 17675 1403. Rolando de la Torre Arceo and John Anthony Arceo. Report from Committee on Judiciary to accompany H.R. 1172. Aug. 13, 1964. 6 p.
- 17676 1404. Mrs. Maisie Magdalene Lim Ketchens. Report from Committee on Judiciary to accompany H.R. 1262. Aug. 13, 1964. 4 p.
- 17677 1405. Rickert & Laan, Inc. Report from Committee on Judiciary to accompany H.R. 1263. Aug. 13, 1964. 4 p.
- 17678 1406. Rosa Stefania Ratajczak. Report from Committee on Judiciary to accompany H.R. 2324. Aug. 13, 1964. 6 p.
- 17679 1409. Wilfredo Lacar de Leon. Report from Committee on Judiciary to accompany H.R. 5154. Aug. 13, 1964. 5 p.
- 17680 1410. Mrs. Guiseppe D'Aquanno, Maria D'Aquanno, and Benedicto D'Aquanno. Report from Committee on Judiciary to accompany H.R. 5155. Aug. 13, 1964. 5 p.
- 17681 1416. Mrs. Edeltraud Englisch Franklin. Report from Committee on Judiciary to accompany H.R. 8399. Aug. 13, 1964. 9 p.
- 17682 1418. Danny Hiromi Oyama. Report from Committee on Judiciary to accompany H.R. 9290. Aug. 13, 1964. 6 p.
- 17683 1420. Young Soon Kim and Tai Ung Choi. Report from Committee on Judiciary to accompany H.R. 9519. Aug. 13, 1964. 8 p.
- 17684 1421. Moni Parvanoff Floroff. Report from Committee on Judiciary to accompany H.R. 9561. Aug. 13, 1964. 6 p.
- 17685 1422. Dr. Miguel de Socarraz. Report from Committee on Judiciary to accompany H.R. 10216. Aug. 13, 1964. 6 p.
- 17686 1424. Kathryn Choi Ast and Chung K. Won. Report from Committee on Judiciary to accompany H.R. 9361. Aug. 13, 1964. 12 p.
- 17687 1443. Dr. G. L. Clifton. Report from Committee on Judiciary to accompany S. 226. Aug. 15, 1964. 6 p.
- 17688 1530. Providing for conveyance of certain lands to Pascua Yaqui Association, Inc. Report from Committee on Interior and Insular Affairs to accompany H.R. 6233. Sept. 8, 1964. 5 p.
- 17689 1532. Modoc County, Calif., lands. Report from Committee on Interior and Insular Affairs to accompany H.R. 2753. Sept. 10, 1964. 6 p.
- 17690 1543. Patrick E. Eagan. Report from Committee on Judiciary to accompany S. 416. Sept. 14, 1964. 3 p.
- 17691 1544. Clarence C. and Lucy W. Russell. Report from Committee on Judiciary to accompany S. 2443. Sept. 14, 1964. 5 p.
- 17692 1545. Vermont Maple Orchards, Inc. Report from Committee on Judiciary to accompany S. 3117. Sept. 14, 1964. 6 p.
- 17693 1546. Lt. John P. Mann. Report from Committee on Judiciary to accompany H.R. 5500. Sept. 14, 1964. 5 p.
- 17694 1547. Earnest O. Scott. Report from Committee on Judiciary to accompany H.R. 6593. Sept. 14, 1964. 6 p.
- 17695 1548. Jack B. Fisher. Report from Committee on Judiciary to accompany H.R. 7788. Sept. 14, 1964. 8 p.
- 17696 1549. Gordon W. McGrew. Report from Committee on Judiciary to accompany H.R. 8300. Sept. 14, 1964. 6 p.
- 17697 1550. Patrick J. Clyne. Report from Committee on Judiciary to accompany H.R. 8596. Sept. 14, 1964. 4 p.
- 17698 1551. Capt. Charles H. Glassett, jr. Report from Committee on Judiciary to accompany H.R. 9201. Sept. 14, 1964. 5 p.

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- 17699 1552. Marvin S. Kline. Report from Committee on Judiciary to accompany H.R. 10526. Sept. 14, 1964. 5 p.
- 17700 1553. Quality Bedding Co. Report from Committee on Judiciary to accompany H.R. 10634. Sept. 14, 1964. 5 p.
- 17701 1554. M. Sgt. Richard G. Smith, U.S. Air Force, retired. Report from Committee on Judiciary to accompany S. 2578. Sept. 14, 1964. 5 p.
- 17702 1555. Elmer Levy. Report from Committee on Judiciary to accompany H.R. 9976. Sept. 14, 1964. 5 p.
- 17703 1557. Frank B. Rowlett. Report from Committee on Judiciary to accompany H.R. 7348. Sept. 14, 1964. 12 p.

Senate reports on public bills, 88th Congress. † Senate Document Room, Capitol. (Nos. 1513 and 1542 are sold by Superintendent of Documents.)

● Item 1008-A

- 17704 1063. Extending for 2 years period for which payments in lieu of taxes may be made with respect to certain real property transferred by Reconstruction Finance Corporation and its subsidiaries to other Government departments. Report from Committee on Government Operations to accompany H.R. 9964. June 8, 1964. 10 p.
- 17705 1311. Claims of certain inhabitants of United States living in area inundated by sudden floods of Rio Grande as result of construction of Falcon Dam, and for other purposes. Report from Committee on Judiciary to accompany H.R. 8999. Aug. 4, 1964. 13 p.
- 17706 1319. Authorizing printing as Senate document of compilation of materials relating to reclamation repayment contracts. Report from Committee on Rules and Administration to accompany S. Res. 341. Aug. 4, 1964. 1 p.
- 17707 1330. Lower Colorado River Basin project. Report together with individual and minority views from Committee on Interior and Insular Affairs to accompany S. 1658. Aug. 6, 1964. 35 p. [Corrected print.]  
L.C. card 64-62326
- 17708 1330, pt. 2. Authorizing construction, operation, and maintenance of Central Arizona project. Individual views from Committee on Interior and Insular Affairs to accompany S. 1658. Sept. 17, 1964. 13 p. [Corrected print.]  
L.C. card 64-62326
- 17709 1346. Exempting from taxation certain property of National Trust for Historic Preservation in United States in District of Columbia. Report from Committee on District of Columbia to accompany H.R. 9975. Aug. 7, 1964. 3 p.
- 17710 1357. Authorizing Secretary of Interior to sell Enterprise Rancheria no. 2 to California. Report from Committee on Interior and Insular Affairs to accompany H.R. 11562. Aug. 8, 1964. 3 p.
- 17711 1362. Providing for establishment of Indiana Dunes National Lakeshore. Report together with individual and minority views from Committee on Interior and Insular Affairs to accompany S. 2249. Aug. 10, 1964. 11 p. [Corrected print.]  
L.C. card 64-62474
- 17712 1363. Exemption of rural electric cooperatives from Power Commission jurisdiction. Report from Committee on Commerce to accompany S. 2028. Aug. 10, 1964. 7 p. [Includes individual views of Mr. Lausche and Mr. Beall.]
- 17713 1364. Land and water conservation fund act. Report from Committee on Interior and Insular Affairs to accompany H.R. 3846. Aug. 10, 1964. 39 p. [Includes individual views.]  
L.C. card 64-62473
- 17714 1365. Increasing partial pay of educational employees of public schools of District of Columbia who are on leave of absence for educational improvement, and for other purposes. Report from Committee on District of Columbia to accompany H.R. 5337. Aug. 10, 1964. 8 p.
- 17715 1368. Amending act to authorize commissioners of District of Columbia to remove dangerous or unsafe buildings and parts thereof, and for other purposes, approved Mar. 1, 1899. Report from Committee on District of Columbia to accompany H.R. 7441. Aug. 10, 1964. 8 p.
- 17716 1370. Amending District of Columbia police and firemen's salary act of 1958, District of Columbia teacher's salary act of 1955, and for other purposes. Report from Committee on District of Columbia to accompany S. 2981. Aug. 12, 1964. 22 p.
- 17717 1371. Amending act of July 25, 1956, to remove certain residence restrictions upon officers and members of Metropolitan Police force and Fire department of District of Columbia. Report from Committee on District of Columbia to accompany H.R. 10683. Aug. 12, 1964. 4 p.
- 17718 1372. Amending District of Columbia Unemployment compensation act, as amended. Report from Committee on District of Columbia to accompany H.R. 6353. Aug. 12, 1964. 6 p.
- 17719 1373. Documentation of vessel Alva L., with full coastwise privileges. Report from Committee on Commerce to accompany S. 2776. Aug. 12, 1964. 4 p.
- 17720 1374. Disaster road program. Report from Committee on Public Works to accompany S. 2968. Aug. 12, 1964. 4 p.

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## Senate reports on public bills, 88th Congress—Continued

- 17721 1375. Filing of 1964 tobacco allotment leases. Report from Committee on Agriculture and Forestry to accompany H.J. Res. 1026. Aug. 12, 1964. 4 p.
- 17722 1376. Providing for regulation of business of selling securities in District of Columbia and for licensing of persons engaged therein, and for other purposes. Report from Committee on District of Columbia to accompany H.R. 9419. Aug. 12, 1964. 12 p.
- 17723 1377. Table Rock Dam and Reservoir project, Mo., amendment to act of July 13, 1959, relating to sale of certain lands to Missouri. Report from Committee on Public Works to accompany S. 2460. Aug. 12, 1964. 6 p.
- 17724 1378. Nurse training act of 1964. Report from Committee on Labor and Public Welfare to accompany H.R. 11241. Aug. 12, 1964. 47 p. L.C. card 64-62557
- 17725 1379. Graduate public health training amendments of 1964. Report from Committee on Labor and Public Welfare to accompany H.R. 11083. Aug. 12, 1964. 9 p.
- 17726 1381. Appointment of Pierre Salinger as United States Senator from California. Report of Committee on Rules and Administration to accompany S. Res. 351 together with minority views; Aug. 12, 1964. 1964. III+19 p. L.C. card 64-62560
- 17727 1382. Presidential inability and vacancies in office of Vice President. Report together with individual views from Committee on Judiciary to accompany S.J. Res. 139. Aug. 13, 1964. 21 p. L.C. card 64-62465
- 17728 1383. Appalachian regional development act of 1964. Report together with minority views from Committee on Public Works to accompany S. 2782. Aug. 13, 1964. 56 p.
- 17729 1384. Extending recognition to International Exposition for Southern California in 1968. Report from Committee on Foreign Relations to accompany S.J. Res. 162. Aug. 13, 1964. 5 p. L.C. card 64-62467
- 17730 1385. Commission on International Rules of Judicial Procedure. Report from Committee on Judiciary to accompany H.R. 9436. Aug. 13, 1964. 5 p. L.C. card 64-62470
- 17731 1386. Appeal right of Canal Zone employees under Federal employees compensation act. Report from Committee on Labor and Public Welfare to accompany H.R. 7662. Aug. 13, 1964. 5 p.
- 17732 1387. Terms of office of members of National Mediation Board. Report from Committee on Labor and Public Welfare to accompany H.R. 8344. Aug. 13, 1964. 6 p.
- 17733 1388. Consent for compact relating to taxation of motor fuels consumed by interstate buses. Report from Committee on Judiciary to accompany S. 2208. Aug. 13, 1964. 14 p.
- 17734 1390. Empowering U.S. district courts to entertain civil actions against United States for fees, salaries, or compensation not in excess of \$10,000. Report from Committee on Judiciary to accompany H.R. 11520. Aug. 13, 1964. 4 p.
- 17735 1391. Terms of court at Williston, N. Dak. Report from Committee on Judiciary to accompany S. 2392. Aug. 13, 1964. 5 p.
- 17736 1393. Making permanent district judgeship for northern district of Ohio. Report from Committee on Judiciary to accompany S. 2696. Aug. 13, 1964. 8 p.
- 17737 1394. Jurisdiction and venue of appeals from ICC orders in judicial references cases. Report from Judiciary to accompany H.R. 7508. Aug. 13, 1964. 5 p.
- 17738 1395. Providing for inclusion of Hopkins County within Paris division of eastern district for U.S. district courts in Texas. Report from Committee on Judiciary to accompany H.R. 5964. Aug. 13, 1964. 3 p.
- 17739 1396. St. Francis Levee District, Ark. Report from Committee on Judiciary to accompany H.R. 7138. Aug. 13, 1964. 4 p.
- 17740 1407. Uniform audit requirements for federally chartered corporations. Report from Committee on Judiciary to accompany H.R. 4223. Aug. 13, 1964. 18 p. L.C. card 64-62468
- 17741 1408. State of New Mexico. Report from Committee on Judiciary to accompany H.R. 4786. Aug. 13, 1964. 4 p.
- 17742 1411. Extending to Loudoun County, Va., provisions of law which permit commitment to St. Elizabeths Hospital persons of unsound mind found on certain Federal reservations in Virginia and Maryland. Report from Committee on Judiciary to accompany H.R. 5543. Aug. 13, 1964. 4 p.
- 17743 1414. Amending sec. 3288 and 3289 of title 18, United States Code, relating to indictment after dismissal of defective indictment. Report from Committee on Judiciary to accompany H.R. 7219. Aug. 13, 1964. 5 p.
- 17744 1423. Military personnel and civilian employees' claims act of 1964. Report from Committee on Judiciary to accompany H.R. 6910. Aug. 13, 1964. 16 p.
- 17745 1425. Permitting use of statistical sampling procedures in examination of vouchers. Report from Committee on Government Operations to accompany H.R. 10446. Aug. 13, 1964. 9 p.

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- 17746 1426. Amending Government corporation control act to change General Accounting Office audit to calendar-year basis in case of Federal home loan banks and Federal Savings and Loan Insurance Corporation. Report from Committee on Government Operations to accompany H.R. 10705. Aug. 13, 1964. 7 p.
- 17747 1427. Providing authority for payment of certain amounts to offset certain expenses of Federal employees assigned to duty on California offshore islands, and for other purposes. Report from Committee on Government Operations to accompany H.R. 11211. Aug. 13, 1964. 15 p.
- 17748 1428. Correction of certain inequities in taxation of life insurance companies and other amendments. Report from Committee on Finance to accompany H.R. 5739. Aug. 13, 1964. 35 p.  
L.C. card 64-62469
- 17749 1429. Amending Standard container act of 1928. Report from Committee on Commerce to accompany H.R. 9334. Aug. 13, 1964. 10 p.
- 17750 1431. Exempting certain sales of tangible personal property used in repair of railroad equipment. Report from Committee on District of Columbia to accompany H.R. 8451. Aug. 13, 1964. 6 p.
- 17751 1432. Amending Life insurance act in regard to capital of stock insurance companies. Report from Committee on District of Columbia to accompany H.R. 8355. Aug. 13, 1964. 6 p.
- 17752 1433. Amending District of Columbia public assistance act of 1962 so as to provide for furnishing of medical assistance for aged to eligible residents of District of Columbia. Report from Committee on District of Columbia to accompany S. 763. Aug. 13, 1964. 8 p.
- 17753 1434. Graham Burke pumping plant, Ark. Report from Committee on Public Works to accompany S. 2649. Aug. 14, 1964. 3 p.
- 17754 1435. New Jersey Intracoastal Waterway-Point Pleasant Canal. Report from Committee on Public Works to accompany S. 2654. Aug. 14, 1964. 3 p.
- 17755 1436. Strengthening and clarifying certain criminal laws of District of Columbia, and other purposes. Report from Committee on District of Columbia to accompany S. 486. Aug. 14, 1964. 10 p.
- 17756 1437. Incorporating American Academy of Actuaries. Report from Committee on Judiciary to accompany S. 3027. Aug. 14, 1964. 5 p.
- 17757 1438. Making Columbus Day legal holiday. Report from Committee on Judiciary to accompany S. 108. Aug. 14, 1964. 3 p.  
L.C. card 64-62554
- 17758 1439. Authorize relief from disabilities of Federal firearms act when necessary to national security. Report from Committee on Commerce to accompany S. 3068. Aug. 14, 1964. 7 p.
- 17759 1440. Passenger safety standards for Government motor vehicles. Report from Committee on Commerce to accompany H.R. 1341. Aug. 14, 1964. 6 p.
- 17760 1441. Loans to students of optometry. Report from Committee on Labor and Public Welfare to accompany S. 2180. Aug. 14, 1964. 7 p.  
L.C. card 64-62559
- 17761 1442. Psychototic drug control act of 1964. Report from Committee on Labor and Public Welfare to accompany S. 2628. Aug. 14, 1964. 16 p.  
L.C. card 64-62558
- 17762 1444. Establishment of Public Land Law Review Commission. Report from Committee on Interior and Insular Affairs to accompany H.R. 8070. Aug. 15, 1964. 16 p.  
L.C. card 64-62466
- 17763 1445. Providing for closing of roll of Confederated Tribes of Colville Indian Reservation preparatory to submission of proposed legislation for termination of Federal supervision over property and affairs of Confederated Tribes and their members, and for other purposes. Report from Committee on Interior and Insular Affairs to accompany S. 1442. Aug. 17, 1964. 18 p.
- 17764 1446. Processing of grain food products. Report from Committee on Agriculture and Forestry to accompany S. 2634. Aug. 17, 1964. 3 p.
- 17765 1447. Enforcement of forest and grassland regulations. Report from Committee on Agriculture and Forestry to accompany H.R. 7588. Aug. 17, 1964. 5 p.  
L.C. card 64-62461
- 17766 1448. Land exchange, Lassen National Forest. Report from Committee on Agriculture and Forestry to accompany H.R. 10069. Aug. 17, 1964. 2 p.
- 17767 1449. Sale of land in Grand Junction, Colo., acquisition of more suitable facilities. Report from Committee on Agriculture and Forestry to accompany H.R. 6601. Aug. 17, 1964. 5 p.
- 17768 1450. Relocation of animal quarantine station. Report from Committee on Agriculture and Forestry to accompany H.R. 1642. Aug. 17, 1964. 7 p.
- 17769 1451. County ASC committees. Report from Committee on Agriculture and Forestry to accompany S. 1253. Aug. 17, 1964. 5 p.
- 17770 1452. Sale of reserved mineral interests, Pender County, N.C. Report from Committee on Agriculture and Forestry to accompany H.R. 4242. Aug. 17, 1964. 4 p.
- 17771 1453. Patronage refunds of banks for cooperatives. Report from Committee on Agriculture and Forestry to accompany H.R. 10419. Aug. 17, 1964. 10 p.
- 17772 1454. Armed Forces milk program extension. Report from Committee on Agriculture and Forestry to accompany H.R. 9747. Aug. 17, 1964. 3 p.

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- 17773 1455. Providing for satisfaction of claims arising out of scrip, lieu selection, and similar rights. Report from Committee on Interior and Insular Affairs to accompany H.R. 4149. Aug. 17, 1964. 5 p.
- 17774 1456. Authorizing exchange of public domain lands for use of Atomic Energy Commission. Report from Committee on Interior and Insular Affairs to accompany S. 2984. Aug. 17, 1964. 5 p.
- 17775 1457. Fort Larned National Historic Site. Report from Committee on Interior and Insular Affairs to accompany H.R. 3071. Aug. 17, 1964. 5 p. L.C. card 64-62460
- 17776 1458. Saint-Gaudens National Historic Site. N.H. Report from Committee on Interior and Insular Affairs to accompany H.R. 4018. Aug. 17, 1964. 4 p. L.C. card 64-62463
- 17777 1459. Increase in phosphate lease acreage. Report from Committee on Interior and Insular Affairs to accompany S. 2500. Aug. 17, 1964. 7 p.
- 17778 1460. Departments of Labor, and Health, Education, and Welfare, and related agencies appropriations bill, 1965. Report from Committee on Appropriations to accompany H.R. 10809. Aug. 17, 1964. 82 p.
- 17779 1461. To provide for establishment of recreational facilities at Sanford Reservoir area, Tex. Report from Committee on Interior and Insular Affairs to accompany H.R. 8135. Aug. 17, 1964. 6 p.
- 17780 1462. Judge Francis Carr Powerhouse. Report from Committee on Interior and Insular Affairs to accompany H.J. Res. 733. Aug. 18, 1964. 4 p.
- 17781 1463. John Muir National Historic Site, Calif. Report from Committee on Interior and Insular Affairs to accompany H.R. 439. Aug. 18, 1964. 6 p. L.C. card 64-62555
- 17782 1464. Wind River Indian irrigation project. Report from Committee on Interior and Insular Affairs to accompany S.J. Res. 6. Aug. 18, 1964. 7 p.
- 17783 1465. Providing for establishment of Allegheny Portage Railroad National Historic Site and Johnstown Flood National Memorial, Pa. Report from Committee on Interior and Insular Affairs to accompany H.R. 931. Aug. 18, 1964. 6 p.
- 17784 1466. Development of coal resources of public domain. Report from Committee on Interior and Insular Affairs to accompany S. 2327. Aug. 18, 1964. 8 p.
- 17785 1467. Extension and amendment of Public Law 480. Report from Committee on Agriculture and Forestry to accompany S. 2687. Aug. 18, 1964. 52 p. L.C. card 64-62551
- 17786 1468. Modifying retirement benefits of judges of District of Columbia Court of General Sessions, District of Columbia Court of Appeals and Juvenile Court of District of Columbia and for other purposes. Report from Committee on District of Columbia to accompany H.R. 5871. Aug. 18, 1964. 13 p.
- 17787 1469. Survey of marine and fresh-water commercial fisheries. Report from Committee on Commerce to accompany S.J. Res. 174. Aug. 18, 1964. 17 p. L.C. card 64-62502
- 17788 1470. Authorizing Weather Bureau to make certain reimbursement between appropriations. Report from Committee on Commerce to accompany S. 2315. Aug. 18, 1964. 3 p.
- 17789 1471. Public lands sales. Report from Committee on Interior and Insular Affairs to accompany H.R. 5498. Aug. 18, 1964. 14 p.
- 17790 1472. Designation of beneficiary under Federal employees' group life insurance act. Report from Committee on Post Office and Civil Service to accompany S. 1974. Aug. 18, 1964. 6 p.
- 17791 1473. Reimbursement for toll telephone charges for census enumerators. Report from Committee on Post Office and Civil Service to accompany H.R. 9425. Aug. 18, 1964. 2 p.
- 17792 1474. Repeal of certain provisions relating to duties of census enumerators. Report from Committee on Post Office and Civil Service to accompany 4818. Aug. 18, 1964. 2 p.
- 17793 1475. Acceleration of date for taking economic censuses. Report from Committee on Post Office and Civil Service to accompany H.R. 3545. Aug. 18, 1964. 2 p.
- 17794 1476. Inclusion of temporary District of Columbia teachers in health and life insurance programs. Report from Committee on Post Office and Civil Service to accompany H.R. 5932. Aug. 18, 1964. 12 p.
- 17795 1477. Application of Federal health and life insurance laws to certain U.S. commissioners. Report from Committee on Post Office and Civil Service to accompany H.R. 5708. Aug. 18, 1964. 3 p.
- 17796 1478. Amends act of Mar. 10, 1964, 3d division. Riverton project, Wyo. Report from Committee on Interior and Insular Affairs to accompany S. 3053. Aug. 19, 1964. 5 p.
- 17797 1479. Providing for construction, operation, and maintenance of Savery-Pot Hook, Bostwick Park, and Fruitland Mesa participating reclamation projects under Colorado River storage project act. Report from Committee on Interior and Insular Affairs to accompany H.R. 3672. Aug. 19, 1964. 16 p.

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- 17798 1480. Authorizing Secretary of Army to pay fair value for improvements located on railroad right-of-way owned by bona fide lessees or permittees. Report from Committee on Judiciary to accompany H.R. 1136. Aug. 19, 1964. 3 p.
- 17799 1481. Enforcement of art. 19 of United Nations charter. Report from Committee on Foreign Relations to accompany S. Con. Res. 93. Aug. 19, 1964. 4 p.
- 17800 1482. Expressing sense of Congress with respect to enforcement of provisions of art. 19 of United Nations charter. Report from Committee on Foreign Relations to accompany H. Con. Res. 343. Aug. 19, 1964. 1 p.
- 17801 1483. Placing temporarily in rotunda of Capitol statue of Father Eusebio Francisco Kino, and hold ceremonies on such occasion. Report from Committee on Rules and Administration to accompany H. Con. Res. 273. Aug. 19, 1964. 1 p.
- 17802 1484. Accepting for National Statuary Hall collection statue of Father Eusebio Francisco Kino, presented by Arizona. Report from Committee on Rules and Administration to accompany H. Con. Res. 274. Aug. 19, 1964. 4 p.
- 17803 1485. Authorizing printing of proceedings at unveiling of statue of Father Eusebio Francisco Kino. Report from Committee on Rules and Administration to accompany H. Con. Res. 275. Aug. 10, 1964. 1 p.
- 17804 1486. Higher education student assistance act of 1964. Report together with minority and individual views from Committee on Labor and Public Welfare to accompany S. 3140. Aug. 19, 1964. 36 p.  
L.C. card 64-62503
- 17805 1487. Amending District of Columbia minimum wage law. Report from Committee on District of Columbia to accompany S. 860. Aug. 19, 1964. 32 p.  
L.C. card 64-62500
- 17806 1488. Authorizing Smithsonian Institution to employ aliens in scientific or technical capacity. Report from Committee on Rules and Administration to accompany H.R. 10178. Aug. 19, 1964. 2 p.
- 17807 1489. Authorizing additional expenditures for study of administrative practice and procedure. Report from Committee on Rules and Administration to accompany S. Res. 352. Aug. 19, 1964. 3 p.
- 17808 1490. Authorizing additional expenditures for investigation of antitrust and monopoly laws of United States. Report from Committee on Rules and Administration to accompany S. Res. 353. Aug. 19, 1964. 2 p.
- 17809 1491. Authorizing additional expenditures for study of matters pertaining to constitutional amendments. Report from Committee on Rules and Administration to accompany S. Res. 354. Aug. 19, 1964. 2 p.
- 17810 1492. Authorizing additional expenditures for investigation of matters pertaining to constitutional rights. Report from Committee on Rules and Administration to accompany S. Res. 355. Aug. 19, 1964. 2 p.
- 17811 1493. Authorizing additional expenditures for study of matters pertaining to immigration and naturalization. Report from Committee on Rules and Administration to accompany S. Res. 356. Aug. 19, 1964. 2 p.
- 17812 1494. Authorizing additional expenditures for investigation of refugees and escapees from Communist tyranny. Report from Committee on Rules and Administration to accompany S. Res. 358. Aug. 19, 1964. 2 p.
- 17813 1495. Authorizing additional expenditures for investigation of administration, operation, and enforcement of Internal security act. Report from Committee on Rules and Administration to accompany S. Res. 357. Aug. 19, 1964. 2 p.
- 17814 1496. Authorizing additional expenditures for study of revision and codification of Statutes of United States. Report from Committee on Rules and Administration to accompany S. Res. 359. Aug. 19, 1964. 2 p.
- 17815 1497. Authorizing additional expenditures for investigation of juvenile delinquency. Report from Committee on Rules and Administration to accompany S. Res. 360. Aug. 19, 1964. 3 p.
- 17816 1498. Authorizing printing for use of Committee on Government Operations of additional copies of its hearings on Administration of national security. Report from Committee on Rules and Administration to accompany S. Res. 362. Aug. 19, 1964. 2 p.
- 17817 1499. Authorizing printing for use of House Committee on Banking and Currency of additional copies of v. 1 and 2 of its hearings entitled Federal reserve system after 50 years. Report from Committee on Rules and Administration to accompany H. Con. Res. 330. Aug. 19, 1964. 1 p.
- 17818 1500. Authorizing printing for use of House Committee on Judiciary of additional copies of its hearings on prayers and Bible reading in public schools. Report from Committee on Rules and Administration to accompany H. Con. Res. 336. Aug. 19, 1964. 2 p.
- 17819 1501. Authorizing printing for use of House Committee on Banking and Currency of additional copies of v. 3 of its hearing entitled Federal reserve system after 50 years. Report from Committee on Rules and Administration to accompany H. Con. Res. 346. Aug. 19, 1964. 1 p.
- 17820 1502. Authorizing printing for use of House Committee on Un-American Activities of additional copies of its annual report for year 1962 (H. rept. 176, 88th Cong.). Report from Committee on Rules and Administration to accompany H. Con. Res. 347. Aug. 19, 1964. 1 p.
- 17821 1503. Authorizing printing of v. 2 and 3 of World communist movement, selective chronology as House documents. Report from Committee on Rules and Administration to accompany H. Con. Res. 348. Aug. 19, 1964. 1 p.

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## Senate reports on public bills, 88th Congress—Continued

- 17822 1504. Authorizing printing of additional copies of H. rp. 1480, 88th Congress, entitled State taxation of interstate commerce. Report from Committee on Rules and Administration to accompany H. Con. Res. 349. Aug. 19, 1964. 2 p.
- 17823 1505. Authorizing printing as House document of compilation of works of art and other objects in U.S. Capitol. Report from Committee on Rules and Administration to accompany H. Con. Res. 350. Aug. 19, 1964. 2 p.
- 17824 1506. Authorizing and directing that certain lands exclusively administered by Secretary of Interior be classified in order to provide for their disposal or interim management under principles of multiple use and to produce sustained yield of products and services. Report from Committee on Interior and Insular Affairs to accompany H.R. 5159. Aug. 20, 1964. 6 p.
- 17825 1507. Providing for payment of compensation for rights-of-way acquired by Bureau of Reclamation. Report from Committee on Interior and Insular Affairs to accompany H.R. 130. Aug. 20, 1964. 6 p.
- 17826 1508. Geothermal steam leasing. Report from Committee on Interior and Insular Affairs to accompany S. 883. Aug. 20, 1964. 16 p. L.C. card 64-62556
- 17827 1509. Conveyance of certain Navy-owned lands in Monterey County, Calif., to California in exchange for certain other lands. Report from Committee on Armed Services to accompany H.R. 11594. Aug. 20, 1964. 4 p.
- 17828 1510. Acquisition of building constructed on Fort Jay Military Reservation, N.Y., by Young Men's Christian Association. Report from Committee on Armed Services to accompany H.R. 9803. Aug. 20, 1964. 4 p.
- 17829 1511. Removal of certain conditions regarding real property in South Boston, Mass., conveyed to Massachusetts Port Authority. Report from Committee on Armed Services to accompany H.R. 11338. Aug. 20, 1964. 8 p.
- 17830 1512. Conveyance to Sunnysvale, Calif., of certain lands in County of Santa Clara, in exchange for certain other lands. Report from Committee on Armed Services to accompany H.R. 12278. Aug. 20, 1964. 3 p.
- 17831 1513. Social security amendments of 1964. Supplemental report together with individual views of Committee on Finance on H.R. 11865; Aug. 20, 1964. 1964. iii+137 p. \* Paper, 35c. L.C. card 64-62553
- 17832 1515. Authorizing promotion of qualified Reserve officers of Army and Air Force to existing unit vacancies. Report from Committee on Armed Services to accompany H.R. 2501. Aug. 21, 1964. 7 p.
- 17833 1516. OASDI coverage of ministers and Oklahoma engineering aides, retroactive disability determinations. Report from Committee on Finance to accompany H.R. 9393. Aug. 21, 1964. 23 p.
- 17834 1517. Foster care for dependent children. Report from Committee on Finance to accompany H.R. 10473. Aug. 21, 1964. 4 p.
- 17835 1518. Timely payment of oil lease rentals. Report from Committee on Interior and Insular Affairs to accompany S. 1984. Aug. 31, 1964. 7 p.
- 17836 1519. Juvenile delinquency. Report of Committee on Judiciary, made by its Subcommittee to Investigate Juvenile Delinquency, pursuant to S. Res. 265, 87th Congress, and S. Res. 63 and S. Res. 274, 88th Congress; Aug. 31, 1964. 1964. iii+26 p. L.C. card 58-60635
- 17837 1521. Claims against Cuba. Report from Committee on Foreign Relations to accompany H.R. 12259. Sept. 3, 1964. 18 p.
- 17838 1522. Providing for disposition of judgment funds now on deposit to credit of Red Lake band of Chippewa Indians. Report from Committee on Interior and Insular Affairs to accompany S. 3035. Sept. 3, 1964. 4 p.
- 17839 1523. Providing for disposition of judgment funds on deposit to credit of Quinaielt Tribe of Indians. Report from Committee on Interior and Insular Affairs to accompany S. 3079. Sept. 3, 1964. 3 p.
- 17840 1524. Providing for assessing of Indian trust and restricted lands within Lummi Indian diking project on Lummi Indian Reservation in Washington through drainage and diking district under laws of State. Report from Committee on Interior and Insular Affairs to accompany S. 3114. Sept. 3, 1964. 7 p.
- 17841 1525. Extending Osage Mineral Reservation for indefinite period. Reports from Committee on Interior and Insular Affairs to accompany H.R. 10204. Sept. 3, 1964. 4 p.
- 17842 1526. Breaks Interstate Park compact, Virginia and Kentucky. Report from Committee on Interior and Insular Affairs to accompany H.R. 11162. Sept. 3, 1964. 3 p.
- 17843 1527. Authorizes addition of lands to Morristown National Historical Park, N.J. Report from Committee on Interior and Insular Affairs to accompany H.R. 3396. Sept. 4, 1964. 4 p.
- 17844 1528. Clair Engle Lake. Report from Committee on Interior and Insular Affairs to accompany S. 3143. Sept. 4, 1964. 3 p.
- 17845 1529. Authorizing exchange of certain property at Independence National Historical Park. Report from Committee on Interior and Insular Affairs to accompany H.R. 7096. Sept. 4, 1964. 3 p.
- 17846 1531. Lewis and Clark Trail Commission. Report from Committee on Interior and Insular Affairs to accompany S. 3116. Sept. 10, 1964. 5 p.

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- 17847 1533. Amending Contingency option act to protect right to annuities of survivors of retired servicemen. Report from Committee on Armed Services to accompany S. 2021. Sept. 10, 1964. 6 p.
- 17848 1534. Authorizing removal of flight hazard at Naval Air Station, Norfolk, Va. Report from Committee on Armed Services to accompany H.R. 12308. Sept. 10, 1964. 4 p.
- 17849 1535. Authorizing Reserve officers to combine service in more than one Reserve component in computing 4 years of satisfactory Federal service necessary to qualify for uniform maintenance allowance. Report from Committee on Armed Services to accompany H.R. 2509. Sept. 10, 1964. 4 p.
- 17850 1536. Relief of certain commissioned officers of Army and Air Force who were erroneously paid uniform allowance under provisions of Career compensation act of 1949, as amended. Report from Committee on Armed Services to accompany H.R. 10328. Sept. 10, 1964. 6 p.
- 17851 1537. Authorizing disposal of sisal from national stockpile. Report from Committee on Armed Services to accompany H.R. 12091. Sept. 10, 1964. 5 p.
- 17852 1538. Authorizing disposal of antimony from national stockpile. Reports from Committee on Armed Services to accompany H.R. 11913. Sept. 10, 1964. 7 p.
- 17853 1539. Authorizing disposal of portions of 10 materials from national stockpile. Report from Committee on Armed Services to accompany H. Con. Res. 320. Sept. 10, 1964. 9 p.
- 17854 1540. Crediting of certain military service for purposes of reserve retired pay. Report from Committee on Armed Services to accompany H.R. 9718. Sept. 10, 1964. 8 p.
- 17855 1541. Operation of art. 7, NATO status of forces treaty. Report of Committee on Armed Services made by its Subcommittee on Operation of Art. 7 of NATO Status of Forces Agreement, to review for period Dec. 1, 1962–Nov. 30, 1963, operation of art. 7 of agreement between parties in North Atlantic Treaty, together with other criminal jurisdictional arrangements throughout the world; Sept. 10, 1964. 1964. iii+16 p. il. L.C. card 56-61872
- 17856 1542. Services for senior citizens, recommendations and comment. Report by Special Committee on Aging, together with minority and individual views; Sept. 11, 1964. 1964. iii+19 p. \* Paper, 15c. L.C. card 64-62720
- 17857 1556. Geographic reorganization of U.S. District Court, eastern district, Mich. Report from Committee on Judiciary to accompany H.R. 4989. Sept. 14, 1964. 4 p.
- 17858 1558. Equal rights for men and women. Report from Committee on Judiciary to accompany S.J. Res. 45. Sept. 14, 1964. 3 p.
- 17859 1559. Authorizing printing for use of Senate Committee on Government Operations of additional copies of its committee print entitled Catalog of Federal aids to State and local Governments. Report from Committee on Rules and Administration to accompany S. Con. Res. 96. Sept. 14, 1964. 2 p.

## *Aging, Special Committee on, Senate*

Washington, D.C. 20510

- 17860 Blue Cross and private health insurance coverage of older Americans, report by Subcommittee on Health of the Elderly, together with minority and individual views; July 1964. 1964. v+153 p. (Committee print, 88th Congress, 2d session.) \* Paper, 40c. L.C. card 64-62673 Y 4.Ag 4 : B 62/2
- 17861 Deceptive or misleading methods in health insurance sales, hearing before Subcommittee on Frauds and Misrepresentation Affecting the Elderly, 88th Congress, 2d session, May 4, 1964. 1964. iii+214 p. il. \* Paper, 60c. ● Item 1009 Y 4.Ag 4 : H 34/6  
L.C. card 64-62672
- 17862 Health frauds and quackery, hearings before Subcommittee on Frauds and Misrepresentations Affecting the Elderly, 88th Congress, 2d session. ● Item 1009 Y 4.Ag 4 : H 34/7/pt.(nos.)  
L.C. card 64-62016  
pt. 4A. Washington, D.C. (Eye care), Apr. 6, 1964. 1964. iii+347-411 p. il. \* Paper, 25c.  
pt. 4B. Washington, D.C. (Eye care), Apr. 6, 1964. 1964. iii+413-525 p. il. \* Paper, 35c.

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*Agriculture and Forestry Committee, Senate*

*Washington, D.C. 20510*

- 17863 Extension of Public law 480, 83d Congress, hearing, 88th Congress, 2d session, on S. 1498, S. 2687, and S. 2925, Aug. 12, 1964. 1964. iii+107 p. †  
● Item 1032  
L.C. card 64-62302 Y 4.Ag 8/2: Ag 8/19/964

*Appropriations Committee, Senate*

*Washington, D.C. 20510*

- 17864 Labor-Health, Education, and Welfare appropriations for 1965, hearings before subcommittee, 88th Congress, 2d session, on H.R. 10809. †  
● Item 1033  
L.C. card 60-61494 Y 4.Ap 6/2: L 11/965/pt. (nos.)  
pt. 1. Feb. 18-Mar. 13, 1964. 1964. ii+1052+xx p. il.  
pt. 2. May 22-July 1, 1964. 1964. ii+1053-2048+xx p. il. 1 pl.

*Armed Services Committee, Senate*

*Washington, D.C. 20510*

- 17865 American horological industry, hearing before subcommittee, 88th Congress, 2d session, on importance of American horological industry to national defense, Aug. 17, 1964. 1964. iii+368 p. il. † ● Item 1034  
L.C. card 64-62675 Y 4.Ar 5/3: H 78/2/964
- 17866 Dryden nomination and miscellaneous bills, hearing, 88th Congress, 2d session, on nomination of Franklin B. Dryden to be deputy director, Office of Emergency Planning, H.R. 2989, missing persons act amendments, H.R. 4739, advance return of dependents and baggage, H.R. 8676, automobile shipment to Alaska, H.R. 10319, increase in price of Oceanographic Office publications, H.R. 11035, loan of naval vessels; July 30, 1964. 1964. iii+25 p. † ● Item 1034  
L.C. card 64-62518 Y 4.Ar 5/3: D 84
- 17867 Operation of art. 7, NATO status of forces treaty, hearing before subcommittee, 88th Congress, 2d session, Aug. 7, 1964. 1964. iii+18 p. il. †  
● Item 1034  
L.C. card 60-61696 Y 4.Ar 5/3: N 81/964
- 17868 ROTC vitalization act of 1964, hearing, 88th Congress, 2d session, on H.R. 9124, Aug. 13, 1964. 1964. iii+71 p. † ● Item 1034  
L.C. card 64-62519 Y 4.Ar 5/3: R 31/16
- 17869 To protect annuity rights of retired servicemen's survivors, hearing before subcommittee, 88th Congress, 2d session, on S. 2021, Aug. 5, 1964. 1964. iii+12 p. † ● Item 1034  
L.C. card 64-62489 Y 4.Ar 5/3: An 7

*Banking and Currency Committee, Senate*

*Washington, D.C. 20510*

- 17870 Federal savings and loan associations, hearings before subcommittee, 88th Congress, 2d session, on H.R. 9609, Mar. 4 and 10, 1964. 1964. iv+43 p. † ● Item 1035  
L.C. card 64-62495 Y 4.B 22/3: F 31/48
- 17871 Nominations of Wheat and Eckstein, hearing, 88th Congress, 2d session, on nominations of Francis M. Wheat to be member of Securities and Exchange Commission, and Otto Eckstein to be member of Council of Economic Advisers, Aug. 13, 1964. 1964. iii+6 p. † ● Item 1035  
L.C. card 64-62603 Y 4.B 22/3: W 56

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- 17872 Section by section analysis of provisions of S. 3049, Housing act of 1964 (Public law 88-560) ; Sept. 1964. 1964. iv+24 p. (Committee print, 88th Congress, 2d session.) \* Paper, 15c.  
L.C. card 64-62678 Y 4.B 22/3 : H 81/43/964-2

*Commerce Committee, Senate*  
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[Committee hearings], serial, 88th Congress. † ● Item 1041  
Y 4.C 73/2 : 88/(nos.)

- 17873 55. Great Lakes-St. Lawrence Seaway transportation study, hearings before special subcommittee, 88th Congress, 1st [and 2d] session: pt. 1, Dec. 10, 1963-Feb. 25, 1964, Washington, D.C., [and] Muskegon, Mich. 1964. v+1-239 p. il. map  
L.C. card 64-62490
- 17874 56. Same: pt. 2, Feb. 26 and May 12, 1964, Detroit, Mich. and Baltimore, Md. 1964. v+241-587 p. il.  
L.C. card 64-62490

*Finance Committee, Senate*  
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- 17875 Pensions, hearings, 88th Congress, 2d session, on H.R. 1927, Aug. 19, 1964. 1964. iii+54 p. † ● Item 1038  
L.C. card 64-62521 Y 4.F 49 : P 38/5
- 17876 Social security, medical care for the aged amendments, hearings, 88th Congress, 2d session, on H.R. 11865, Aug. 6-14, 1964. 1964. vii+728 p. [Erratum sheet, 1 p. issued also.] \* Paper, \$2.00. ● Item 1038  
L.C. card 64-62364 Y 4.F 49 : So 1/12

*Government Operations Committee, Senate*  
Washington, D.C. 20510

- 17877 Effectiveness of metropolitan planning, prepared in cooperation with Subcommittee on Intergovernmental Relations by Joint Center for Urban Studies of Massachusetts Institute of Technology and Harvard University ; June 30, 1964. 1964. ix+209 p. (Committee print, 88th Congress, 2d session.) \* Paper, 55c.  
L.C. card 64-62736 Y 4.G 74/6 : M 56/5
- 17878 Interagency coordination in environmental hazards (pesticides), hearings before Subcommittee on Reorganization and International Organizations, 88th Congress, 1st session, Agency coordination study (pursuant to S. Res. 27, 88th Cong., as amended), coordination of activities relating to use of pesticides. ● Item 1037  
L.C. card 64-60757 Y 4.G 74/6 : En 8/pt.(nos.)
- pt. 2. July 17, 1963. 1964. iii+391-595 p. il. \* Paper, 60c.  
pt. 3. July 18 and 23, 1963. 1964. iv+597-833 p. il. \* Paper, 65c.  
pt. 4. Aug. 20 and 21, 1963. 1964. iv+835-1044 p. il. \* Paper, 60c.

*Interior and Insular Affairs Committee, Senate*  
Washington, D.C. 20510

- 17879 Picture Rocks National Lakeshore, hearing before Subcommittee on Public Lands, 88th Congress, 2d session, on S. 1143 ; July 20, 1964. 1964. iv+107 p. il., map. [Hearing held in Escanaba, Mich.] † ● Item 1040  
L.C. card 64-62674 Y 4.In 8/13 : P 58
- 17880 Valle Grande-Bandelier National Park, hearing before Subcommittee on Public Lands, 88th Congress, 2d session, on S. 1870, May 29, 1964. 1964. iii+64 p., map. † ● Item 1040  
L.C. card 64-62629 Y 4.In 8/13 : V 24/2

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- 17881 Nominations of Frankie Muse Freeman and Eugene C. Patterson, hearing before Subcommittee on Constitutional Rights, 88th Congress, 2d session, on nominations of Frankie Muss Freeman, of St. Louis, Mo., and Eugene C. Patterson, of Atlanta, Ga., to be members of Commission on Civil Rights; July 28, 1964. 1964. iii+12 p. † ● Item 1042  
L.C. card 64-62632 Y 4.J 89/2: F 87/2
- 17882 Protocols of Elders of Zion, fabricated historic document, report prepared by Subcommittee to Investigate Administration of Internal Security Act and Other Internal Security Laws. 1964. iii+5 p. (Committee print, 88th Congress, 2d session.) ‡  
L.C. card 64-62550 Y 4.J 89/2: Z 6
- 17883 Relationship between Teamsters Union and Mine, Mill and Smelter Workers, use of tax-exempt funds for subversive purposes, report of Subcommittee to Investigate Administration of Internal Security Act and Other Internal Security Laws; Aug. 28, 1964. 1964. iv+102 p. il. (Committee print, 88th Congress, 2d session.) [Addendum, 1 p., was issued also.] \* Paper, 30c.  
L.C. card 64-62699 Y 4.J 89/2: T 22/2

### *Labor and Public Welfare Committee, Senate*

Washington, D.C. 20510

- 17884 Expansion of public laws 815 and 874, hearings before Subcommittee on Education, 88th Congress, 2d session, on S. 2528 and S. 2725, July 29 and 30, 1964. 1964. iv+269 p. il. † ● Item 1043  
L.C. card 64-62631 Y 4.L 11/2: P 96/2
- 17885 Federal employees' compensation act, hearing before Special Subcommittee on Federal Employees' Compensation, 88th Congress, 2d session, on S. 1710 and S. 2078, June 25, 1964. 1964. iv+72 p. † ● Item 1043  
L.C. card 64-62494 Y 4.L 11/2: Em 7/2/964
- 17886 Nomination, hearing, 88th Congress, 2d session, on Robert Sargent Shriver, to be director of Office of Economic Opportunity; Sept. 9, 1964. 1964. iii+12 p. † ● Item 1043  
L.C. card 64-62630 Y 4.L 11/2: N 72/5/964-2

### *Post Office and Civil Service Committee, Senate*

Washington, D.C. 20510

- 17887 Bills to liberalize retirement program, hearing before Subcommittee on Retirement, 88th Congress, 2d session, on S. 991, S. 2144 [and] S. 2184, Aug. 19, 1964. 1964. iii+77 p. † ● Item 1044  
L.C. card 64-62633 Y 4.P84/11: R 31/9/964
- 17888 Bonding of Federal employees, fiscal year 1963 [report by Treasury Department]; Apr. 30, 1964. 1964. iii+7 p. (Committee print, 88th Congress, 2d session.) ‡  
L.C. card 61-64930 Y 4.P84/11: B 64/963

### *Public Works Committee, Senate*

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- 17889 Passamaquoddy-St. John, appendix material compiled in conjunction with hearing on S. 2573, Aug. 12, 1964. 1964. v+177 p. il. 6 pl. (Committee print, 88th Congress, 2d session.) ‡  
L.C. card 64-62602 Y 4.P96/10: P 26/app.

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- 17890 Passamaquoddy-St. John, hearing before subcommittee, 88th Congress, 2d session, on S. 2573, Aug. 12, 1964. 1964. iii+133 p. il. 14 pl. † ● Item 1045  
L.C. card 64-62602 Y 4.P96/10: P 26

*Small Business, Select Committee on, Senate*

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- 17891 Ford tractor distributors, hearing before subcommittee, 88th Congress, 2d session, on circumstances and effects of termination by Ford Motor Company of franchises of its independent distributors of tractors and implements in United States, Feb. 10, 1964. 1964. ix+257 p. il. † ● Item 1049  
L.C. card 64-62362 Y 4.Sm 1/2: F 75
- 17892 Tax treatment of U.S. concerns with Puerto Rican affiliates, hearings, 88th Congress, 2d session, on economic development program, Apr. 16 and 17, 1964. 1964. vi+395 p. il. † ● Item 1049  
L.C. card 64-62491 Y 4.Sm 1/2: T 19/6

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Catalog of copyright entries, 3d series, v. 17.

- 17893 pt. 2. Periodicals, no. 1, Jan.-June 1963. 1964. ix+252 p. 4° \* Paper, \$2.00 a yr., 50c. additional for foreign mailing; single copy, \$1.00. ● Item 793  
L.C. card 6-35347 LC 3.6/5: v.17/pt. 2/no. 1
- 17894 pt. 6. Maps and atlases, no. 2, July-Dec. 1963. 1964. ix+91-184 p. 4° \* Paper, \$1.00 a year, 25c additional for foreign mailing; single copy, 50c.  
● Item 797  
L.C. card 6-35347 LC 3.6/5: v.17/pt. 6/no. 2

**CUSTOMS BUREAU, Treasury Dept.**

Washington, D.C. 20226

- 17895 Merchant vessels of United States, 1964, including yachts; Jan. 1, 1964. 1964. v+1267 p. oblong 8° [Also issued as H. doc. 274, 88th Cong., 2d sess.] \* Cloth, \$7.25. ● Item 950  
L.C. card 6-35358 T 17.11/2: 964

**DEFENSE DEPARTMENT**

Washington, D.C. 20301

- 17896 Department of Defense annual report for fiscal year 1963, including reports of Secretary of Defense, Secretary of Army, Secretary of Navy, Secretary of Air Force. 1964. v+379 p. il. \* Paper, \$1.50. ● Item 310  
L.C. card 50-60652 D 1.1: 963

Plastics Technical Evaluation Center, Picatinny Arsenal, Dover, N.J.: PLASTEC report.

- 17897 16. Plastic gears, memorandum on feasibility for use in ammunition items [with list of references]; by John Nardonne. July 1964. [1]+iii+30+[5] p. il. 4° [Issued with perforations.] Φ Paper, \$1.00.  
L.C. card 64-62832 D 4.11: 16

Standardization directory SD-(series).

- 17898 1. Standardization directory and planning schedule (FSC class and area assignments). July 1, 1964. cover title, [1]+iv+23 p. 4° (Defense standardization program; Defense Supply Agency.) [Quarterly. Issued with perforations.] \* Paper, 30c. ● Item 314-C D 7.13: 1/12

- 17899 USAFI supply notes; Aug. 1964. [1964.] [1]+15 p. 4° (United States Armed Forces Institute.) [Errata sheet, 1 p. oblong 24°, was issued also. Issued with perforations.] † D 1.10/3: 964-3

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# GOVERNMENT PUBLICATIONS

## ECONOMIC RESEARCH SERVICE, Agriculture Dept.

Washington, D.C. 20250

### Agricultural economic reports. ● Item 42-C A 93.28: (nos.)

- 17900 41. Economic aspects of pecan production and marketing, Arkansas, Florida, South Carolina, Mississippi, New Mexico, Georgia [with list of references; by Robert C. McElroy and Jules V. Dowell]. [Sept. 1963.] vi+42 p. il. 4° \* Paper, 25c.  
L.C. card Agr 64-4
- 17901 56. Rural recreation enterprises in New England, investments, returns, problems [with selected bibliography; by Elmer J. Moore]. [May 1964.] iv+27 p. il. 4° (Resource Development Economics Division.) [Series designation as Agricultural economic research report is incorrect.] \* Paper, 20c.  
L.C. card Agr 64-415
- 17902 57. Food supplies available by counties in case of national emergency, civil defense study; [by Robert M. Walsh and others]. July 1964. cover title, [2]+210 p. oblong 8° [Prepared in cooperation with Civil Defense Office, Defense Dept.] \* Paper, \$1.25.  
L.C. card 64-62729

### ERS (series). † A 93.21: (nos.)

- 17903 172. Truck crop production practices, Yakima County, Wash. labor, power, and materials, by operation; [by Earle E. Gavett]. [July 1964.] iv+42 p. il. 4° (Farm Production Economics Division.)  
L.C. card Agr 64-374
- 17904 177. Farm population, estimates for 1963. July 1964. 4 p. 4° (Farm Population Branch, Economic and Statistical Analysis Division.)
- 17905 179. Operating procedures and labor utilization in cottonseed oil mills, 1961-62 season; [by Thomas B. Smith]. [July 1964.] iii+27 p. il. 4° (Marketing Economics Division.)
- 17906 191. Revised estimates of non-real-estate farm debt owed to nonreporting creditors, and of total non-real-estate farm debt, 1949-64; by Fred L. Garlock and Philip T. Allen. Sept. 1964. 5 p. il. 4° (Farm Production Economics Division.)

### ERS-foreign (series). A 93.21/2: (nos.)

- 17907 86. Food balances for 24 countries of Western Hemisphere, 1959-61; [prepared by John J. Naive, assisted by Rena E. Perley, and Gae A. Bennett]. [Aug. 1964.] [2]+29 p. 4° (Foreign Regional Analysis Division.) † ● Item 76-G  
L.C. card Agr 64-62733
- 17908 87. Food balances for 16 countries of Western Europe, 1959-61; [prepared by West European Branch]. [Aug. 1964.] [2]+18 p. 4° (Foreign Regional Analysis Division.) † ● Item 76-G  
L.C. card 64-62734
- 17909 88. Food balances for 12 countries in Far East and Oceania, 1949-61; [prepared by Far East Branch]. [Aug. 1964.] [2]+14 p. 4° (Foreign Regional Analysis Division.) † ● Item 76-G  
L.C. card 64-62732
- 17910 92. Agricultural economy of Tanganyika [with list of selected references; by Carey B. Singleton, Jr.] [Sept. 1964.] cover title, iii-vi+59 p. il. 4° (Foreign Regional Analysis Division.) [Text on p. 2 of cover.] † ● Item 76-G  
L.C. card Agr 64-417

## EDUCATION OFFICE, Health, Education, and Welfare Dept.

Washington, D.C. 20201

- 17911 Changes in number of faculty members in same 1,058 institutions of higher education, by rank and length of contract, 1960-61 and 1962-63; by Louis A. D'Amico and W. Robert Bokelman. June 1964. 6 p. 4° (OE-52004-12; Division of Higher Education, College and university finance series.) † FS 5.252: 52004-12
- 17912 Citizens committees for better schools; by Gene C. Fusco. [1964.] [1]+iii+16 p. il. ([OE-20065.]) \* Paper, 15c. ● Item 460-A-20  
L.C. card HEW 64-104 FS 5.220: 20065
- 17913 Commitment to youth, report on 5 years of progress in guidance, counseling, and testing under title 5 of National defense education act, 1958-59/1962-63 [prepared in Guidance and Counseling Programs Branch, Division of State Grants; by O. Ray Warner]. [1964.] 44 p. il. oblong 12° ([OE-25039; Bureau of Educational Assistance Programs.]) \* Paper, 35c. ● Item 460-A-25  
L.C. card HEW 64-105 FS 5.225: 25039

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- 17914 Digest of educational statistics :** by Kenneth A. Simon and W. Vance Grant. 1964 edition. [1964.] xiv+175 p. il. (OE-10024-64, Bulletin 1964, no. 18.) \* Paper, 65c. ● Item 460-A-10  
L.C. card HEW 62-154 FS 5.210: 10024-64
- 17915 Home economics in institutions granting bachelor's or higher degrees, 1963-64** [list]. [1964.] 18 p. 4° (Bureau of Educational Assistance Programs, Division of Vocational and Technical Education, Home Economics Education Branch.) †  
L.C. card HEW 64-35 FS 5.122: H 75/2/963-64
- 17916 Industrial arts courses, grades 7-12, preliminary report ;** by Marshall L. Schmitt. June 1964. 4 p. 4° (OE-33034.) \* Paper, 5c. ● Item 460-A-33 FS 5.233: 33034
- 17917 1965-66 modern foreign language fellowship program, NDEA title 6 and NDEA-related projects under Fulbright-Hays act, undergraduate, graduate, postdoctoral.** [1964.] 16 p. (OE-55034-66.) \* Paper, 10c. ● Item 460-A-55 FS 5.255: 55034-66
- 17918 Moscow in May 1963, education and cybernetics, interchange of Soviet and American ideas concerning education, programed learning, cybernetics, and human mind, joint report ;** by Oliver J. Caldwell and Loren R. Graham. [1964.] vi+49 p. (OE-14106; Bulletin 1964, no. 38.) \* Paper, 25c. ● Item 460-A-14  
L.C. card HEW 64-103 FS 5.214: 14106
- 17919 Opportunities abroad for teachers of Spanish, 1965-66.** [1964.] 1 p. 4° † FS 5.64/4: 965-66
- 17920 Organization and implementation of programs for handicapped children and youth-1964 ;** [prepared by Samuel A. Kirk and Samuel G. Sava.] [1964.] 48 p. 4° ([OE-35057.]) \* Paper, 30c. ● Item 460-A  
L.C. card HEW 64-114 FS 5.235: 35057
- 17921 Progress of public education in United States of America, 1963-64, report of Office of Education, Department of Health, Education, and Welfare, to 27th International Conference on Public Education, Geneva, Switzerland, July 6-17, 1964, jointly sponsored by United Nations Educational, Scientific, and Cultural Organization and International Bureau of Education.** [1964.] vi+73 p. il. (OE-10005-64-A.) \* Paper, 30c. ● Item 460-A-10  
L.C. card E 56-120 FS 5.210: 10005-64-A
- 17922 Public school finance program, 1962-63 : Nebraska ;** prepared by Albert R. Munse, and Paul E. Seidel. Jan. 1963. 5 p. 4° (Bureau of Educational Research and Development.) † FS 5.73: N 27/962-63
- 17923 Soviet education, bibliography of English-language materials ;** [by] Nellie Apanasewicz in collaboration with Seymour M. Rosen. [1964.] vi+42 p. (OE-14101; Bulletin 1964, no. 29, [Studies in comparative education].) \* Paper, 20c. ● Item 460-A-14  
L.C. card HEW 64-110 FS 5.214: 14101
- 17924 State school laws and regulations for health, safety, driver, outdoor, and physical education** [with list of citations to State laws] ; compiled by Zollie Maynard and Salvatore Rinaldi. [1964.] vii+32 p. 4° (OE-28006; Misc. 41.) [Text on p. 2 of cover.] \* Paper, 30c. ● Item 460-A-28  
L.C. card HEW 64-111 FS 5.228: 28006
- 17925 Statistics of public school libraries, 1960-61 : pt. 1, Basic tables ;** by Mary Helen Mahar and Doris C. Holladay. [1964.] vi+90 p. 4° ([OE-15049.]) [Text on p. 2 of cover.] \* Paper, 60c. ● Item 460-A-15  
L.C. card E 39-24 FS 5.215: 15049

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## GOVERNMENT PUBLICATIONS

- 17926 Summary report on bachelor's and higher degrees conferred during year 1962-63; [prepared by Higher Education Surveys Section, Division of Educational Statistics]. June 1964. 11 p. 4° (OE-50039.) \* Paper, 10c. ● Item 460-A-50  
L.C. card HEW 63-58 FS 5.250: 50039
- 17927 Survey of school library standards [with bibliographies]; by Richard L. Darling. [1964.] x+181 p. 4° (OE-15048; Circular 740.) \* Paper, \$1.25. ● Item 460-A-15  
L.C. card HEW 64-109 FS 5.215: 15048
- 17928 Title 7 [National defense education act], new educational media, news and reports, 7th special edition; [Edith M. Rodano, Gertrude G. Broderick, editors]. July 1964. 23 p. 4° (OE 34002-10.) † ● Item 460-A-34  
L.C. card HEW 61-77 FS 5.234: 34002-10
- 17929 U.S. Government films for public educational use, 1963; [compiled by] Seerley Reid and Eloyse Grubbs, with assistance of Mrs. Katharine W. Clugston. [1964.] xii+532 p. 4° (OE-34006-63; Circular 742.) \* Paper, \$3.00. ● Item 460-A-34  
L.C. card HEW 61-145 FS 5.234: 34006-63

### EMPLOYEES' COMPENSATION BUREAU, Labor Dept. Washington, D.C. 20210

- 17930 Workmen's compensation benefits provided under Longshoremen's and harbor workers' compensation act as extended. June 1964. 4 p. narrow 8° (BEC-560.) \* Paper, 5c. ● Item 750-A L 26.5: L 86/2

### EMPLOYMENT SECURITY BUREAU, Labor Dept. Washington, D.C. 20210

Area redevelopment manpower report, area description and economic characteristics, nature of unemployment problem, recent labor market developments, characteristics of area labor supply, Area Redevelopment Administration activities and outlook. [Prepared in cooperation with Department of Commerce, Area Redevelopment Administration.] †

- 17931 Atlantic City, N.J. June 1964. [2]+10 leaves, il. 4° [Text on p. 2 of cover.]  
L 7.66/2: At 6
- 17932 Charleston, W. Va. Sept. 1964. [2]+11 leaves, il. 4° [Text on p. 2 of cover.]  
L 7.66/2: C 38
- 17933 Johnstown, Pa. Sept. 1964. [2]+9 leaves, il. 4° [Text on p. 2 of cover.]  
L 7.66/2: J 62
- 17934 Mayaguez, F.R. Sept. 1964. [2]+9 leaves, il. 4° [Text on p. 2 of cover.]  
L 7.66/2: M 45
- 17935 Wheeling, W. Va.-Ohio. Sept. 1964. [2]+10 leaves, il. 4° [Text on p. 2 of cover.]  
L 7.66/2: W 57

### ENGINEERS CORPS (Army), Defense Dept.

NOTE.—Orders or requests for publications of the Engineers Corps, other than those sold by the Superintendent of Documents or by offices of the Engineers Corps in other cities, should be addressed to Chief of Engineers, U.S. Army, Washington, D.C., 20310, Attention Publications Office.

- 17936 Annual fish passage report, North Pacific Division, Bonneville, The Dalles, McNary and Ice Harbor Dams, Columbia and Snake Rivers, Oregon and Washington [calendar year] 1963; prepared by Army Engineer Districts, Portland and Walla Walla. [1964.] [3]+x+20 p. il. 40 pl. 74 tab. 4° (Reports control symbol NPDGW-79.) [Revised pages 1 and 2, dated Sept. 15, 1964, issued also.] †  
L.C. card 64-60236 D 103.27: 963

Cold Regions Research & Engineering Laboratory: Research report. †

- 17937 129. Ice prediction curves for lake and river locations in Canada [with list of references]; by M. A. Bilello. July 1964. [1]+iv+12+[45] p. il. 4° (Army Materiel Command; [Department of Army task 83-66-02=001-02].) D 103.33/3: 129

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## — Technical reports. ‡

D 103.33: (nos.)

- 17938 102. Ground temperature observations, Galena, Alaska; by G. W. Aitken. May 1963. [2]+vi+15+[2] p. il. 1 pl. 4° [Prepared in cooperation with Weather Bureau and Federal Aviation Agency.]
- 17939 103. Ground temperature observations, McGrath, Alaska; by G. W. Aitken. Jan. 1964. [2]+vi+13+[2] p. il. 1 pl. 4° [Prepared in cooperation with Weather Bureau and Federal Aviation Agency.]
- 17940 104. Ground temperature observations, Big Delta, Alaska; by G. W. Aitken. May 1964. [1]+vi+15+[1] p. il. 1 pl. 4° [Prepared in cooperation with Weather Bureau and Federal Aviation Agency.]
- 17941 132. Undersnow structures, N-34 radar station, Greenland [with list of references]; by Malcolm Mellor. Aug. 1964. [1]+iv+29+[1] p. il. 4° (Army Materiel Command.)
- 17942 Delaware River and Bay, Pa., N.J., and Del., letter from chief of engineers, Army, submitting report on interim hurricane survey and review of reports; Aug. 17, 1964. [1964.] xii+122 p. il. 3 pl. 4° [Also issued as H. doc. 348, 88th Congress, 2d sess.] ‡ ● Item 334-A
- D 103.22: D 37/6
- 17943 East St. Louis and vicinity, Ill., (East Side Levee and Sanitary District), letter from chief of engineers, Army, submitting report on interim report; July 20, 1964. 1964. xiii+191 p. il. 3 pl. map, 4° [Also issued as H. doc. 329, 88th Cong., 2d sess.] ‡ ● Item 334-A
- D 103.22: Ea 7/5
- 17944 Hunting Island Beach, S.C., letter from chief of engineers, Army, submitting report on cooperative beach erosion control study; July 20, 1964. 1964. x+64 p. 4 pl. 4° [Also issued as H. doc. 323, 88th Cong., 2d sess.] ‡ ● Item 334-A
- D 103.22: H 92
- 17945 Kaskaskia River levees, Ill., letter from chief of engineers, Army, submitting report on survey; Aug. 19, 1964. 1964. ix+19 p. il. 4° [Also issued as H. doc. 351, 88th Cong., 2d sess.] ‡ ● Item 334-A
- D 103.22: K 15/964
- 17946 Mississippi River and Tributaries project, letter from chief of engineers, Army, submitting report on review of project, v. 2; May 21, 1964. 1964. iii+[122] p. il. 55 pl., map, 4° [Also issued as H. doc. 308, pt. 2, 88th Cong., 2d sess.] ‡ ● Item 334-A
- L.C. card 64-62412
- D 103.22: M 69i/31/v.2
- 17947 — v. 3; May 21, 1964. 1964. [602] p. il. 41 p. of pl. and maps, 4° [Also issued as H. doc. 308, pt. 3, 88th Cong., 2d sess.] ‡ ● Item 334-A
- L.C. card 64-62412
- D 103.22: M 69i/31/v.3
- 17948 — v. 5; May 21, 1964. 1964. [304] p. il. 18 pl. 4° [Also issued as H. doc. 308, pt. 5, 88th Cong., 2d sess.] ‡ ● Item 334-A
- L.C. card 64-62412
- D 103.22: M 69i/31/v.5
- 17949 — v. 6; May 21, 1964. 1964. [80] p. 2 pl. 2 maps, 4° [Also issued as H. doc. 308, pt. 6, 88th Congress, 2d sess.] ‡ ● Item 334-A
- L.C. card 64-62412
- D 103.22: M 69i/31/v.6
- Ohio River Division Laboratories: Technical reports. (Army Engineer Division, Ohio River.) † Ohio River Division Laboratories, 5851 Mariemont Ave., Cincinnati 27, Ohio.
- 17950 4-32. Small scale model study to determine minimum horizontal dimensions for infinite slab behavior; [prepared by R. M. Behrmann]. July 1964. [51] p. il. 4° ‡
- D 103.38: 4-32
- 17951 Ouachita River, Monroe, La., letter from chief of engineers, Army, submitting report on review of report; July 20, 1964. 1964. xii+96 p. il. 3 pl. 4° [Also issued as H. doc. 328, 88th Cong., 2d sess.] ‡ ● Item 334-A
- D 103.22: Ou 1/2
- Pamphlet EP (series).
- 17952 1-1-10. Corps of Engineers Laboratory investigational and research facilities. Apr. 1, 1964. [1]+iv+60+[7] p. il. 4° ‡
- L.C. card 64-62649
- D 103.43: 1-1-10

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17953 Perdido Pass Channel, Ala., letter from chief of engineers, Army, submitting report on review of report; Aug. 20, 1964. 1964. ix+57 p. il. 2 maps, 4° [Also issued as S. doc. 94, 88th Cong., 2d sess.] † ● Item 334-A D 103.22: P 41/964

17954 Providence River and Harbor, R.I., letter from chief of engineers, Army, submitting report on review of reports; Aug. 18, 1964. 1964. x+29 p. 1 pl. 4° [Also issued as S. doc. 93, 88th Cong., 2d sess.] † ● Item 334-A D 103.22: P 94

Regulations ER (series). [Issued in loose-leaf form.] ● Item 341

17955 35-2-10. Finance and fiscal accounting and reporting: Civil works activities. July 1, 1964. cover title, [597] p. il. 4° [Recission of EM 35-2-10, July 1, 1962, including Changes 1 through 25, and EC 35-2-9, June 1, 1964.] † D 103.6/4: 35-2-10

17956 Rocky River Harbor, Ohio, letter from chief of engineers, Army, submitting report on interim report; Aug. 19, 1964. 1964. x+58 p. il. 1 pl. 4° [Also issued as H. doc. 352, 88th Cong., 2d sess.] † ● Item 334-A D 103.22: R 59/5

17957 Tidewater portions of Patuxent, Potomac and Rappahannock Rivers including adjacent Chesapeake Bay shoreline, interim hurricane survey, letter from chief of engineers, Army, submitting report; Aug. 19, 1964. 1964. xi+61 p. il. 3 pl. 4° [Also issued as H. doc. 350, 88th Cong., 2d sess.] † ● Item 334-A D 103.22: P 27/2

17958 Waterborne commerce of United States, calendar year 1963, pt. 2, Waterways and harbors, Gulf Coast, Mississippi River System and Antilles. [1964.] x+226 p. il. 4° [Compiled under supervision of Division Engineer, Army Engineer Division, Lower Mississippi Valley, Corps of Engineers Vicksburg, Miss.] † Paper, \$1.50, District Engineer, Army Engineer District, P.O. Box 60, Vicksburg, Miss., 39181. L.C. card 55-63535 D 103.1/2: 963/pt.2

### Waterways Experiment Station.

NOTE.—Unless otherwise indicated, publications of Waterways Experiment Station may be ordered from Corps of Engineers, U.S. Army, Waterways Experiment Station, Vicksburg, Miss. (price upon application).

### — Miscellaneous paper.

17959 6-643. Investigation of feasibility of manufacturing aggregate by nuclear methods [with list of references; prepared by R. L. Curry]. Army-MRC Vicksburg, Miss., Apr. 1964. [3]+vii+19+[17] p. il. 4° [Sponsored by Army Materiel Command project 4A 022601A880.] D 103.24/4: 6-643

17960 Welcome to Lake o' the Pines, Tex. [Army-MRC, Vicksburg, Miss.] July 1964. 1 sheet with map on verso, il. narrow f°, folded into narrow 8° size. (Army Engineer Division, Lower Mississippi Valley.) [Some illustrations are colored.] † U.S. Army Engineer District, New Orleans, La. D 103.2: L 14/964

## FARMER COOPERATIVE SERVICE, Agriculture Dept. Washington, D.C. 20250

### General report.

17961 119. Statistics of farmer cooperatives, 1961-62; by Anne L. Gessner. Apr. 1964. cover title, ii+26 p. il. 4° [Includes list of other publications available on p. 4 of cover.] † L.C. card 60-62294 A 89.11: 119

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- 17962 10. Airports and heliports, planning, management and operations, safety, selected references. Dec. 1963. cover title, iv + 90 p. 4°  
L.C. card 64-61137 FAA 1.10/3:10
- 17963 FAA air traffic activity, fiscal year 1964; [prepared in Statistical Services Branch, Data Systems Division, Office of Management Services]. Aug. 1964. x + 214 + [1] p. il. 4° [Errata, 1 + 153-166 p., issued also.] \* Paper, \$1.25. ● Item 431-C-1  
L.C. card 59-61451 FAA 1.27:964
- Federal aviation regulations. [Issued in loose-leaf form.]  
FAA 1.6/8: (nos.)
- 17964 pt. 1. Definitions and abbreviations; Change 5, adopted June 3, 1964. [10] p. 4° †
- 17965 pt. 35. Airworthiness standards, propellers [adopted June 3, 1964]. [1964.] cover title, [1] + i + 3 p. 4° [Effective on same date that pt. 21 (new) becomes effective.] \* Paper, 20c. ● Item 431-C-13
- 17966 pt. 49. Recording of aircraft titles and security documents. [1964.] cover title, [1] + i + 2 + 5 p. 4° \* Paper, 20c. ● Item 431-C-13
- 17967 pt. 61. Certification: Pilots and flight instructors, change 6, [effective] May 4, 1964. [1964.] [12] p. 4° †
- 17968 pt. 99. Security control of air traffic, change 1, [effective] July 1, 1964. [1964.] [7] p. il. 4° †
- 17969 State and regional airlift planning. [1964.] cover title, [94] p. il. 4° (Advisory circular 00-7.) [Issued with perforations.] † ● Item 431-C-4  
L.C. card 64-62650 FAA 1.8: Ai 7/2
- 17970 Title listing of CAA publications, information retrieval list 2. July 1964. cover title, [1] + 85 p. 4° (Office of Headquarters Operations, Library Services Division Information Retrieval Branch.) †  
L.C. card 64-62708 FAA 1.10/2:2

### FEDERAL COMMUNICATIONS COMMISSION

Washington, D.C. 20554

- 17971 Federal Communications Commission reports, decisions and reports, v. 33, July 13-Dec. 29, 1962. 1964. xvi-942 p. il. \* Cloth, \$3.25. ● Item 284  
L.C. card 36-26605 CC 1.12:33

### FEDERAL DEPOSIT INSURANCE CORPORATION

Washington, D.C. 20429

- 17972 Annual report of Federal Deposit Insurance Corporation for year ended Dec. 31, 1963. [1964.] xv + 199 p. il. †  
L.C. card 36-26171 Y 3.F 31/8:1/963

### FEDERAL HOME LOAN BANK BOARD

Washington, D.C. 20552

- 17973 Savings and home financing source book, 1964. [1964.] 48 p. il. 4° [Map on p. 3 of cover.] †  
L.C. card 53-63519 FHL 1.11:964

### FEDERAL HOUSING ADMINISTRATION, Housing and Home Finance Agency, Washington, D.C. 20410

- 17974 FHA regulations: Home mortgage insurance. [1964.] cover title, [109] p. (FHA 3000.) [Includes Home regulations transmittal 30, June 1, 1964. This edition consolidates all previously issued amendments through those contained in Home regulations transmittal 29. Issued in loose-leaf form.] †  
L.C. card 64-62704 HH 2.6: M84/7/964

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- 17975 **FHA regulations: [Home mortgage insurance amendments to sec. 203].** [1964.] [4] p. ([FHA 3000-31.]) [Includes Home regulations transmittal 31, June 5, 1964. Issued in loose-leaf form.] †  
HH 2.6: M 84/7/964/trans.31
- 17976 — [Project insurance amendments to secs. 221 and 231]. [1964.] [5] p. ([FHA 4000-27.]) [Includes Project transmittal memorandum 27, July 1, 1964. Issued in loose-leaf form.] †  
HH 2.6: M 84/6/964/trans.27
- 17977 — Project mortgage insurance. [1964.] cover title, [159] p. (FHA 4000.) [Includes Project regulations transmittal 26, June 1, 1964. This edition consolidates all previously issued amendments through those contained in Project transmittal 25. Issued in loose-leaf form.] †  
L.C. card 64-62705 HH 2.6: M84/6/964
- 17978 [Minimum property standards for multifamily housing], General revision no. M-1; June 1964. [1964.] [34] p. il. 4° (FHA 2600.) [Issued in loose-leaf form. Applicable in all FHA insuring office jurisdictions and effective immediately.] † ● Item 593 HH 2.17/3: M 91/rev. M-1
- 17979 [Minimum property standards for 1 and 2 living units], Interim revision no. 23, July 1964. [1964.] [15] p. il. 4° (FHA 300.) [Issued with perforations. Amendments to be applied to cases received for processing after Oct. 1, 1964.] † ● Item 593 HH 2.17/4: 963/int. rev. 23

### FEDERAL POWER COMMISSION

Washington, D.C. 20426

National electric rate book, rate schedules for electric service in communities of 2,500 population or more, residential, commercial, and industrial services. [Issued with perforations.]

NOTE.—The complete rate book is made up of separate publications, each representing a State. They are sold on subscription basis by the Superintendent of Documents, \$8.00 a year, \$3.00 additional for foreign mailing; single copy, 25c.

- 17980 National electric rate book: Iowa. July 1964. [2]+29 p. 4° [Supersedes issue of Aug. 1963.] ● Item 437-A-13 FP 1.18: Io 9/964
- 17981 — Minnesota. July 1964. [2]+30 p. 4° [Supersedes issue of June 1963.] ● Item 437-A-21 FP 1.18: M 66/964
- 17982 — North Dakota. July 1964. [2]+8 p. 4° [Supersedes issue of June 1963.] ● Item 437-A-32 FP 1.18: N 81d/964
- 17983 — South Dakota. July 1964. [2]+15 p. 4° [Supersedes issue of June 1963.] ● Item 437-A-39 FP 1.18: So 8d/964
- 17984 Uniform system of accounts prescribed for natural gas companies (class A and class B), subject to provisions of Natural gas act, in effect on Feb. 1, 1964. [1964.] vi+145 p. ([FPC A-12.]) [Issued in loose-leaf form.]  
\* Paper, 70c. ● Item 439  
L.C. card 40-26189 FP 1.7: G 21/964

### FEDERAL RESERVE SYSTEM BOARD OF GOVERNORS

Washington, D.C. 20551

- 17985 Industrial production indexes, 1961-63. Sept. 1964. 22 p. 4° (Division of Research and Statistics.) †  
L.C. card 60-60032 FR 1.2: P 91/961-63
- 17986 Industrial production, seasonal factors, 1961-63. Sept. 1964. [8] p. 4° (Division of Research and Statistics.) † FR 1.2: P 94/6/961-63
- Regulations (series). † FR 1.6: (letters)
- 17987 G. Collection of noncash items, amendment; effective Sept. 1, 1964. [1964.] 1 p. [Title 12, Code of Federal regulations, pt. 207.]
- 17988 J. Check clearing and collection, amendment; effective Sept. 1, 1964. [1964.] 1 p.

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- 17989 Siamese twins, financing and marketing, remarks of C. Canby Balderston, Vice Chairman, Board of Governors of Federal Reserve System, before Cleveland chapter of American Marketing Association, Cleveland, Ohio, Sept. 15, 1964. [1964.] [1]+10 p. 4° † FR 1.23: B 19/16
- 17990 Treasury and Federal Reserve foreign exchange operations [Mar.-Aug. 1964; prepared by Charles A. Coombs]. [1964.] 16 p. 4° [Preprinted from Federal reserve bulletin, Sept. 1964.] † FR 1.3/a: F 761/2/964-2

**FEDERAL SUPPLY SERVICE, General Services Administration  
Washington, D.C. 20405**

- 17991 Federal specifications. ● Item 563 GS 2.8:

NOTE.—These specifications are now so completely covered by the Index of Federal specifications, standards, and handbooks with cumulative monthly supplements, that listing in the Monthly Catalog of United States Government Publications represents unnecessary and wasteful duplication of effort. For that reason they will no longer be listed.

Complete information on the Index of Federal specifications will be found in the Appendix to the February 1964 issue of the Monthly Catalog under Entry number 3585 and in the April 1964 issue under Entry number 6693.

Federal test method standard. [Issued in loose-leaf form.] ● Item 563

- 17992 791a. Lubricants, liquid fuels, and related products, methods of testing; Dec. 31, 1961, Change notice 2; July 27, 1964. [1964.] [108] p. ll. 4° † GS 2.8/7: 791a/ch.2

**FINE ARTS COMMISSION  
Washington, D.C. 20240**

- 17993 Commission of Fine Arts, 1910-63, brief history; by H. Paul Caemmerer. [1964.] [5]+21 p. il. large 8° \* Paper, 70c. ● Item 432  
L.C. card 64-62658 FA 1.2: H 62/910-63

**FISH AND WILDLIFE SERVICE, Interior Dept.  
Washington, D.C. 20240**

C.F.S. (series). (Bureau of Commercial Fisheries.) † I 49.8/2: (nos.)

- 17994 3484. New Jersey landings, 1963, annual summary. [1964.] 10 p. ll. 4° [Prepared in cooperation with New Jersey Department of Conservation and Economic Development, Division of Fish and Game, Trenton, N.J. 08600.]
- 17995 3552. Louisiana landings, 1963, annual summary. [1964.] 8 p. ll. 4° [Prepared in cooperation with Louisiana Wild Life and Fisheries Commission, Division of Oyster and Water Bottoms and Commercial Seafood, New Orleans, La. 70100.]
- 17996 3574. Middle Atlantic fisheries, 1963, annual summary. [Aug. 1964.] 6 p. ll. 4°

Circulars. † I 49.4: (nos.)

- 17997 189. Outdoor fish cookery. [1964.] 10 p. ll. narrow 8° ([Bureau of Commercial Fisheries.])
- 17998 191. Extent of acid mine pollution in United States affecting fish and wildlife [with list of literature cited]; by Edward C. Kinney. June 1964. iii+27 p. ll. 4° (Bureau of Sport Fisheries and Wildlife.)  
L.C. card 64-62382

Commercial fisheries review, separates.

- 17999 703. Second World Fishing Gear Congress [with list of papers presented]; by Edward A. Schaefer and Dayton L. Alverson. [1964.] 11 p. ll. 4° [From v. 26, no. 5, May 1964.] † I 49.10/a: 703

Fishery leaflet. †

- 18000 561. List of Fish and Wildlife Service papers on physical and chemical oceanography, 1940-62; by Lola T. Dees. Mar. 1964. 14 p. 4° (Bureau of Commercial Fisheries [MS 1330].) [Revision of Fishery leaflet 515, dated Apr. 1961.] I 49.28: 561

Refuge leaflet.

- 18001 40. Brigantine National Wildlife Refuge. [1958, revised 1964.] [1964.] 4 p. ll. 4° (Bureau of Sport Fisheries and Wildlife.) † I 49.44: 40/4

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# GOVERNMENT PUBLICATIONS

SL [statistical list] series. (Bureau of Commercial Fisheries.) †

I 49.42: (nos.)

- 18002 1. Wholesale dealers in fishery products, Maine, 1963. Revised [edition]. [June 1964.] 8 p. 4°
- 18003 2. Same: New Hampshire, 1963. Revised [edition]. June 1964. 1 p. 4°
- 18004 3. Same: Massachusetts, 1963. Revised [edition]. [June 1964.] 11 p. 4°
- 18005 4. Same: Rhode Island, 1963. Revised [edition]. [July 1964.] 2 p. 4°
- 18006 5. Same: Connecticut, 1963. Revised [edition]. June 1964. 1 p. 4°
- 18007 6. Same: New York coastal area, 1963. Revised [edition]. [June 1964.] 11 p. 4°
- 18008 7. Same: New Jersey, 1963. Revised [edition]. [July 1964.] 4 p. 4°
- 18009 8. Same: Pennsylvania, 1963 (coastal area). Revised [edition]. [July 1964.] 3 p. 4°
- 18010 9. Same: Delaware, 1963. Revised [edition]. June 1964. 1 p. 4°
- 18011 10. Same: Maryland, 1963. Revised [edition]. [July 1964.] 9 p. 4°
- 18012 11. Same: Washington, D.C., 1963. Revised [edition]. June 1964. 1 p. 4°
- 18013 12. Same: Virginia, 1963. Revised [edition]. [June 1964.] 11 p. 4°
- 18014 13. Same: North Carolina, 1963. Revised [edition]. [July 1964.] 6 p. 4°
- 18015 14. Same: South Carolina, 1963. Revised [edition]. [July 1964.] 3 p. 4°
- 18016 15. Same: Georgia, 1963. Revised [edition]. [July 1964.] 2 p. 4°
- 18017 17. Same: Alabama, 1963 (Coastal area). Revised [edition]. [July 1964.] 3 p. 4°
- 18018 18. Same: Mississippi, 1963 (coastal area). Revised [edition]. [July 1964.] 3 p. 4°
- 18019 19. Same: Louisiana, 1963 (coastal area). Revised [edition]. [July 1964.] 7 p. 4°
- 18020 22. Same: Oregon, 1963. Revised [edition]. [July 1964.] 3 p. 4°
- 18021 23. Same: Washington, 1963. Revised [edition]. [July 1964.] 6 p. 4°
- 18022 33. Same: North Dakota (Mississippi River and tributaries). Revised [edition]. July 1964. 1 p. 4°
- 18023 41. Same: Arkansas, 1963 (Mississippi River and tributaries). Revised [edition]. [June 1964.] 2 p. 4°
- 18024 43. Same: Alabama, 1963 (Mississippi River and tributaries). Revised [edition]. June 1964. 1 p. 4°
- 18025 44. Same: Nebraska, 1963 (Mississippi River and tributaries). Revised [edition]. July 1964. 1 p. 4°
- 18026 45. Same: Mississippi, 1963 (Mississippi River and tributaries). Revised [edition]. June 1964. 1 p. 4°
- 18027 46. Same: Texas, 1963 (Mississippi River and tributaries). Revised [edition]. [July 1964.] 2 p. 4°
- 18028 49. Same: South Dakota, 1963 (Mississippi River and tributaries). Revised [edition]. July 1964. 1 p. 4°

Special scientific report: Fisheries (series). †

- 18029 446. Age and size composition of menhaden catch along Atlantic Coast of United States, 1958, with brief review of commercial fishery [with list of literature cited]; by Fred C. June and William R. Nicholson. May 1964. iv+40 p. il. 4° (Bureau of Commercial Fisheries.) I 49.15/2: 446

— Wildlife (series). †

- 18030 82. Preliminary keys to waterfowl age and sex identification by means of wing plumage; by Samuel M. Carney. Mar. 1964. vi+47 p. il. 4° ([Bureau of Sport Fisheries and Wildlife.]) [Manuscript corrections on p. 9.] I 49.15/3: 82

Statistical digest.

- 18031 55 Propagation and distribution of food fishes for calendar years 1961 and 1962; and prepared by Division of Fish Hatcheries, Bureau of Sport Fisheries and Wildlife. [1964.] [2]+49 p. \* Paper, 25c. ● Item 615 L.C. card 8-35107 I 49.32: 55

## FLIGHT STANDARDS SERVICE, Federal Aviation Agency Washington, D.C. 20553

- 18032 Refresher courses for private and commercial pilots. 1964. iv+23 p. ([Advisory circular, AC 61-10.]) \* Paper, 15c. ● Item 431-F-3 FAA 5.8/2: P 64/9
- 18033 United States civil aircraft register, July 1, 1964. [1964.] cover title, iii+11+1336 p. 4° (AC no. 20-6B; Control Systems Data Establishment.) [Semiannual.] \* Paper, \$7.00. ● Item 431-F-5 L.C. card 63-65041 FAA 5.14: 964-2

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**FOOD AND DRUG ADMINISTRATION, Health, Education, and  
Welfare Dept., Washington, D.C. 20201**

- 18034 [Compilation of regulations for tests and methods of assay and certification of antibiotic drugs]; June 13, 1964. [June 1964.] [94] leaves+ [22] p. 4° (Division of Antibiotics and Insulin Certification, Bureau of Scientific Standards and Evaluation.) [Reprinted from Federal register and title 21, Code of Federal regulations, pt. 148. Issued with perforations.] † ● Item 478 FS 13.106: An8
- 18035 —[New pages]; June 19, 1964. [June 1964.] [33] leaves+[18] p. 4° [Reprinted from Federal register and title 21, Code of Federal regulations, pt. 148. Issued in loose-leaf form.] † ● Item 478 FS 13.106: An8/new pages
- 18036 Dedication, Food and Drug Building, Baltimore, Md., Sept. 17, 1964. [1964.] 7 p. il. oblong 48° † FS 13.102: B 86  
FDA publication.
- 18037 2. Requirements of United States food, drug, and cosmetic act. 1964 revision. [1964.] vii+56 p. \* Paper, 20c. ● Item 475 FS 13.111: 2/4  
L.C. card 64-62722
- 18038 Feasibility of establishing integrated agency-wide scientific information system, report [with list of references]; prepared by Arthur D. Little, Inc., Cambridge, Mass. July 1964, reprinted Aug. 1964. [1]+vi+[169] p. il. 4° (Contract FDA 64-16 (Neg.)) ‡ FS 13.102: In 3  
L.C. card 64-62701
- 18039 Notices of judgment under Federal food, drug, and cosmetic act: Cosmetics, 242-256, Aug. 1964. p. 163-170. † ● Item 477 FS 13.113: 242-256  
L.C. card Agr 40-149
- 18040 Notices of judgment under Federal hazardous substances labeling act, 41-60. Aug. 1964. p. 27-38. † ● Item 476 FS 13.112/2: 41-60
- 18041 Organization of Food and Drug Administration [charts]. Aug. 1964. [2] p.+7 leaves, oblong, 8° † FS 13.102: Or 3

**FOREIGN AGRICULTURAL SERVICE, Agriculture Dept.  
Washington, D.C. 20250**

FAS-M (series). †

- 18042 161. U.S. fruit markets in Japan; [by Robert S. Fitzsimmonds.] Aug. 1964. 19 p. il. 4° ● Item 76-G A 67.26: 161  
L.C. card Agr 64-413

**FOREST SERVICE, Agriculture Dept.  
Washington, D.C. 20250**

Forest pest leaflets. † ● Item 82-A A 13.52: (nos.)

- 18043 83. White-pine cone beetle [with list of references]; by Thomas M. Odell and Paul A. Godwin. Sept. 1964. 7 p. il. L.C. card Agr 64-426
- 18044 84. Nectria canker of hardwoods [with list of references]; by Robert W. Brandt. Aug. 1964. 7 p. il. L.C. card Agr 64-418
- 18045 88. White trunk rot of hardwoods [with list of references]; by John H. Ohman and K. J. Kessler, jr. Aug. 1964. 7 p. il. L.C. card Agr 64-419
- 18046 Forest Products Laboratory list of publications on chemistry of wood. May 1964. cover title, ii+30 p. 4° ([64-024]) [Previously issued as Forest Products Laboratory Report no. 238.] † A 13.27/7: W 85/3/964
- 18047 Forest Products Laboratory list of publications on structural sandwich, plastic laminates, and wood-base components. May 1964. cover title, 36 p. 4° ([64-008.]) [Previously issued as Forest Products Laboratory Report RPI-4. Text on p. 2 of cover.] † L.C. card 64-61990 A 13.27/7: St 8

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# GOVERNMENT PUBLICATIONS

## Forest resource report.

18048 16. Forests and forest industries of Brazil; by Rudolph Stahelin and William P. Everard. 1964. vi+50 p. il. 4° \* Paper, 40c. ● Item 83  
L.C. card Agr 64-420 A 13.50: 16

18049 Report of chief of Forest Service, 1963. [Sept. 1964.] iii+50 p. il. 4°  
[Covers calendar year activities unless otherwise identified; where records are on fiscal year basis, they are so reported.] \* Paper, 35c.  
● Item 80  
L.C. card Agr 12-394 A 13.1: 963

Research note CS (series). (Central States Forest Experiment Station, Columbus, Ohio.) † A 13.79: CS-(nos.)

18050 CS-20. Premium yellow-poplar seedlings, 8 years after planting; (by David T. Funk. Sept. 1964. 4 p. il.

18051 CS-21. Forest area in Illinois, by counties, 1962; [by Burton L. Essex and David A. Gansner]. Sept. 1964. 4 p. il.

Research note FPL-(series). (Forest Products Laboratory, Madison, Wis.) † A 13.79: FPL-(nos.)

18052 FPL-033. Methods for evaluating shear strength of plastic laminates reinforced with unwoven glass fibers [with list of literature cited; by Karl Romstad]. May 1964. cover title, 36+[1] p. il. 4° [Issued in cooperation with MIL-HDBK-17 Working Group on Plastics for Flight Vehicles of Departments of Air Force, Navy, and Commerce.]  
L.C. card 64-62724

18053 FPL-034. Pattern of variation of fibril angle within annual rings of *Pinus attenuata*; [by Charlotte H. Hiller]. Apr. 1964. cover title, 6+[7] p. il. 4°

18054 FPL-036. Limited evaluation of physical and mechanical properties of Nepal alder grown in Hawaii; [by C. C. Gerhards]. May 1964. cover title, 4+[7] p. 4°

18055 FPL-037. Nailing dense hardwoods. June 1964. 3 p. 4° [Reprint of Technical note 247, Apr. 1964, reissued Oct. 1961.]

18056 FPL-042. Performance of nail-glued joints of plywood to solid wood [with list of literature cited; by D. V. Doyle]. June 1964. cover title, 10+[19] p. il. 4°

18057 FPL-043. Two-stage nonchlorination bleaching of several hardwood neutral sulfite semichemical pulps; [by F. A. Simmonds and Axel Hyttinen]. Apr. 1964. cover title, 6+[7] p. 4°

18058 FPL-044. Veneer cutting and drying properties of cottonwood. Apr. 1964. 4 p. 4° [Prepared in cooperation with University of Wisconsin. Reprint of Forest Products Laboratory report 1766-3, Dec. 1950.]

18059 FPL-046. Forest Products Laboratory, natural finish. Apr. 1964. 6 p. 4° [Prepared in cooperation with University of Wisconsin. Revision of Forest Products Laboratory report 2096, no. 1, 1957, revised May 1961.]

18060 FPL-048. Woodworking machines. May 1964. 10 p. 4° [Prepared in cooperation with University of Wisconsin. Slight revision of Forest Products Laboratory report 1766, 1947.]

18061 FPL-049. Study of wind stresses in 3 typical pole building frames; [by John E. Parker]. May 1964. cover title, 8+[9] p. il. 4° [Text on p. 2 of cover.]

Research note INT-(series). (Intermountain Forest & Range Experiment Station, Ogden, Utah.) † A 13.19: INT-(nos.)

18062 INT-17. Regenerating lodgepole pine in central Montana following clear cutting; [by] David Tackle. 1964. 7 p. il. 4°

18063 INT-18. Development of young western white pine plantations; [by] Raymond J. Boyd and Glenn H. Deitschman. 1964. 6 p. il. 4°

18064 INT-21. Field correlation of 2 neutron-scattering soil moisture meters [with list of literature cited; by] John D. Schultz. 1964. 7 p. il. 4°

18065 INT-22. Self- and cross-pollination of western white pine, comparison of height growth of progeny; [by] Burton V. Barnes. 1964. 3 p. 4° 3 p. 4°

Research note LS-(series). (Lake States Forest Experiment Station, St. Paul, Minn.) † A 13.79: LS-(nos.)

18066 LS-46. Twenty-two-year results of precommercial thinning experiment in jack pine; [by] Robert E. Buckman]. [July 1964.] [2] p. 4° [Issued with perforations.]

18067 LS-47. Comparing severity of fire seasons; [by] J. H. Dieterich and James K. Brown]. [July 1964.] [4] p. il. 4°

18068 LS-48. Lake States pulpwood cut continues to climb; Wisconsin takes lead in pulpwood production; [by] A. G. Horn]. [July 1964.] [2] p. 4° [Issued with perforations.]

18069 LS-49. Leaf blight of boxelder attributed to 2, 4-D spray drift; [by] Howard M. Phipps]. [July 1964.] [2] p. il. 4° [Issued with perforations.]

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**Research note PNW-(series).** (Pacific Northwest Forest and Range Experiment Station, Portland, Oreg.) † A 13.79: PNW-(nos.)

- 18070 PNW-12. More natural regeneration by controlling seed-eating rodents [with list of literature cited]; by William I. Stein. Apr. 1964. 10 p. il. 4°  
 18071 PNW-13. Comparison of high-lead yarding production rates in windthrown and standing timber; by Virgil W. Binkley. May 1964. 9 p. il. 4°

**Research note PSW-(series).** (Pacific Southwest Forest & Range Experiment Station, Berkeley, Calif.) †

- 18072 40. Predicting insect-caused damage to Douglas-fir seed from samples of young cones; [by] Clarence J. Demars. 1964. 7 p. il. 4° A 13.79: PSW-40

**Research note SE-(series).** (Southeastern Forest Experiment Station, Asheville, N.C.) † A 13.79: SE-(nos.)

- 18073 SE-17. Some observations on germination of gallberry seed; [by Ralph H. Hughes]. Mar. 1964. [3] p. il. 4°  
 18074 SE-18. Estimating sound seed per cone in shortleaf pine; [by David L. Bramlett and Jay G. Hutchinson]. Mar. 1964. [2] p. il. 4°

**Research note SO-(series).** (Southern Forest Experiment Station, New Orleans, La.) † A 13.79: SO-(nos.)

- 18075 SO-6. Longleaf seed losses to animals on burned seedbeds; [by] William D. Boyer. 1964. 3 p. il. 4°  
 18076 SO-7. Cottonwood improvement system for commercial planters; [by] Robert E. Farmer, Jr., and James R. Wilcox. 1964. 3 p. 4°  
 18077 SO-8. Epicormic branching in north Louisiana Delta [with list of literature cited; by] Arnold Hedlund. 1964. 3 p. il. 4°  
 18078 SO-9. Pulpwood price trends in Midsouth, 1937-63; [by] Joe F. Christopher. 1964. 2 p. 4°

**Research paper FPL (series).** (Forest Products Laboratory, Madison, Wis.) † A 13.78: FPL-(nos.)

- 18079 FPL-11. Effect of restraint during drying on tensile properties of handsheets [with list of literature cited; by Vance C. Setterholm and Warren A. Chilson]. Apr. 1964. cover title, il + 26 + [1] p. il. 4°  
 18080 FPL-12. Performance of sandwich panels in FPL experimental unit [with bibliography; by L. O. Anderson and Lyman W. Wood]. May 1964. cover title, il + 38 + [1] p. il. 4° [Supersedes Forest Products Laboratory report 2121, Sandwich panels for building construction, Oct. 1958, and report 2165, Long-term case study of sandwich panel construction in FPL experimental unit, Oct. 1959.]

**Research paper PNW (series).** (Pacific Northwest Forest and Range Experiment Station, Portland, Oreg.) †

- 18081 PNW-10. Improved procedure for calculating stream discharge; by Nedavia Bethlahmy. Feb. 1964. [2] + 6 + [1] p. il. 4° A 13.78: PNW-10

**Research paper PSW-(series).** (Pacific Southwest Forest and Range Experiment Station, Berkeley, Calif.) † A 13.78: PSW-(nos.)

- 18082 PSW-9. Robusta encalyptus wood, its properties and uses [with list of literature cited; by] Roger G. Skolmen. 1963. cover title, [2] + 12 p. il. 4° [Prepared in cooperation with Forestry Division, Hawaii Department of Land and Natural Resources. Abstract cards inserted.]  
 18083 PSW-13. STX, Fortran 4 program, for estimates of tree populations from 3P sample-tree-measurements [with list of literature cited; by] L. R. Grosenbaugh. 1964. cover title, [4] + 50 + [1] p. il. 4° [Test on p. 2 of cover.]  
 L.C. card 64-62721

**Research paper SE-(series).** (Southeastern Forest Experiment Station, Asheville, N.C.) †

- 18084 SE-9. Hydraulic spray applications of insecticides for control of slash pine cone and seed insects [with list of literature cited]; by Edward P. Merkel. May 1964. cover title, 7 p. 4° [Illustration on p. 1 of cover.]  
 A 13.78: SE-9

**Research paper SO-(series).** (Southern Forest Experiment Station, New Orleans, La.) †

- 18085 SO-8. Value losses in southern hardwood lumber from degrade by insects; [by] Robert C. Morris. 1964. cover title, 6 p. il. 4° [Abstract cards inserted.]  
 A 13.78: SO-8

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Research paper WO-(series). (Department of Agriculture, Washington, D.C.) †

- 18086 WO-1. Drop size spectra method for estimating mass median diameter of aerial sprays [with list of literature cited: by Bohdan Maksymuk]. Apr. 1964. cover title, [11] p. il. 4° (Forest Insect Laboratory, Beltsville, Md)  
L.C. card Agr 64-379 A 13.78 : WO-1

### GENERAL ACCOUNTING OFFICE

Washington, D.C. 20548

- 18087 Report to Congress of United States: Deficiencies in administration of Navajo Indian Reservation road construction program in Arizona and New Mexico, Bureau of Indian Affairs, Department of Interior; by Comptroller General of United States. Aug. 1964. [5]+71 leaves, il. 4° † (Very limited distribution).  
L.C. card 64-62609 GA 1.13 : N 22/10
- 18088 — Follow-up review of Department of Defense action in canceling excessive procurements and redistributing aircraft spare parts programed for or delivered to Portugal under military assistance program, Department of Defense; by Comptroller General of United States. Aug. 1964. cover title, 2 leaves, 4° † (Very limited distribution).  
L.C. card 64-62695 GA 1.13 : Sp 2/19
- 18089 — Improper disposal of needed brake lining kits, Department of Army; by Comptroller General of United States. Aug. 1964. cover title, [3] leaves+14 p. 4° † (Very limited distribution).  
L.C. card 64-62526 GA 1.13 : B 73/3
- 18090 — Increased costs resulting from ineffective use of automatic data processing system in supply management at Philadelphia Naval Shipyard, Philadelphia, Pa., Department of Navy; by Comptroller General of United States. Aug. 1964. cover title, [3] leaves+35 p. 4° † (Very limited distribution).  
L.C. card 64-62614 GA 1.13 : Au 8/13
- 18091 — Uneconomical practices in management and utilization of Government quarters at United States Naval Air Station, Barber's Point, Oahu, Hawaii, Department of Navy; by Comptroller General of United States. Aug. 1964. cover title, [3] leaves+13 p. 4° † (Very limited distribution).  
L.C. card 64-62536 GA 1.13 : N 22/9
- 18092 — Unnecessary costs being incurred for maintenance and payment of allotments of military personnel, Department of Army; by Comptroller General of United States. Sept. 1964. cover title, [3] leaves +21 p. 4° † (Very limited distribution).  
L.C. card 64-62617 GA 1.13 : Ar 5/6
- 18093 — Unnecessary costs resulting from noncompetitive procurement of military ¾-ton trucks, Department of Army; by Comptroller General of United States. Aug. 1964. cover title, [3] leaves+40 p. 4° † (Very limited distribution).  
L.C. card 64-62295 GA 1.13 : T 76/3
- 18094 — Unnecessary costs resulting from purchase and use of paint products in uneconomical-size containers, Department of Defense; by Comptroller General of United States. Aug. 1964. cover title, [3] leaves+19 p. 4° † (Very limited distribution).  
L.C. card 64-62613 GA 1.13 : P 16

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- 18095 — Unnecessary costs to Government in leasing of electronic data processing systems by General Electric Company, Light Military Electronics Department, Utica, N.Y., Department of Defense; by Comptroller General of United States. Aug. 1964. [4]+25 leaves, 4° † (Very limited distribution).  
L.C. card 64-62296 GA 1.13: E1 2/20

**GENERAL SERVICES ADMINISTRATION**  
Washington, D.C. 20405

- 18096 Compilation of basic laws and authorities relating to functions of General Services Administration, revised to June 1, 1964; [prepared by Office of General Counsel]. [1964.] [265] p. \* Paper, 75c. ● Item 560  
L.C. card 64-62601 GS 1.5: G 28

**GEOGRAPHIC NAMES BOARD, Interior Dept.**  
Washington, D.C. 20240

Gazetteers. ● Item 617 I 33.8: (nos.)

- 18097 77. Norway, Svalbard and Jan Mayen, official standard names approved by Board on Geographic Names; prepared in Office of Geography. May 1963 [published 1964.] [2]+xiii+1029 p.+3 leaves, il. oblong 8° † Limited distribution, Office of Geography, Interior Dept.  
L.C. card 64-62580
- 18098 78. Kenya, official standard names approved by Board on Geographic Names; prepared in Office of Geography. Mar. 1964. [2]+vi+367 p. il. oblong 8° † Office of Geography, Interior Dept.  
L.C. card 64-62504
- 18099 80. Republic of Congo (Leopoldville), official standard names approved by Board on Geographic Names; prepared in Office of Geography. Apr. 1964. [2]+iv+426 p. il. oblong 8° † Limited distribution, Office of Geography, Interior Dept.
- 18100 81. Tunisia, official standard names approved by Board on Geographic Names; prepared in Office of Geography. Apr. 1964. [2]+xiii+399 p. il. oblong 8° † Limited distribution, Office of Geography, Interior Dept.  
L.C. card 64-62668

**GEOLOGICAL SURVEY, Interior Dept.**  
Washington, D.C. 20240

Bulletins. ● Item 620 I 19.3: (nos.)

- 18101 1108-E. Geology of Sumdum copper-zinc prospect, southeastern Alaska [with list of references cited]; by E. M. MacKevett, jr., and M. C. Blake, jr. 1964. iv+31+[3] p. il. 1 pl. in pocket. [Recently discovered copper-zinc deposits near western margin of Coast Range batholith. Includes title page and contents to Bulletin 1108. Mineral resources of Alaska. Plate is colored.] \* Paper, 75c.
- 18102 1123-F. Geology of Rewey and Mifflin quadrangles, Wis. [with list of references cited]; by Alfred R. Taylor. 1964. iv+279-360 p. il. 2 pl. in pocket. [Prepared in cooperation with Wisconsin Geological and Natural History Survey. Geology of parts of upper Mississippi Valley zinc-lead district. One plate is colored.] \* Paper, \$1.25.
- 18103 1123-G. Geology of Belmont and Calamine quadrangles, Wis. [with list of references cited]; by Harry Klemic and Walter S. West. 1964. iv+361-435 p. il. 3 pl. in pocket. [Prepared in cooperation with Wisconsin Geological and Natural History Survey. Geology of parts of upper Mississippi Valley zinc-lead district. One plate is colored.] \* Paper, \$1.25.
- 18104 1141-P. Geology of Cleveland quadrangle, Bearpaw Mountains, Blaine County, Mont. [with list of references cited]; by Robert G. Schmidt, W. T. Pecora, and B. C. Hearn, jr. 1964. iv+26+[1] p. il. 1 pl. in pocket. [Description of geologic features and economic resources of area. Contributions to general geology. Plate is colored.] \* Paper, \$1.00.
- 18105 1158-E. Bedrock geology of Kingston quadrangle, R.I. [with list of references cited]; by George E. Moore, jr. 1964. iii+22+[3] p. 1 pl. in pocket. [Prepared in cooperation with State of Rhode Island Development Council. Includes title page and contents to Bulletin 1158. Geology of selected quadrangles in Rhode Island. Plate is colored.] \* Paper, 75c.

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## Bulletins—Continued

- 18106 1159. Geology of uranium deposits in Front Range, Colo. [with list of literature cited]; by P. K. Sims and D. M. Sheridan, with sections by R. U. Kling [and others]. 1964. v+116+[1] p. il. 5 pl. in pocket. [Prepared partly on behalf of Atomic Energy Commission. Summary of geology uranium veins in major productive area.] \* Paper, \$1.25.  
L.C. card GS 64-353
- 18107 1160. Studies of pre-Selma Cretaceous core samples from outcrop area in western Alabama [group of papers, with lists of references; by W. H. Monroe and others]. 1964. [xxix]+108+[6] p. il. 9 pl. 1 in pocket, 4° \* Paper, \$1.25.  
L.C. card GS 64-316
- 18108 1161-F. Geology of Bald Knob quadrangle, Ferry and Okanogan Counties, Wash. [with list of references cited]; by Mortimer H. Staatz. 1964. v+79 p. il. 1 pl. in pocket. [Geology of 198 square miles in central part of Okanogan Highlands, Wash. Contributions to general geology. Plate is colored.] \* Paper, \$1.00.
- 18109 1161-I. Petrochemistry and bedrock geology of Fitchville quadrangle, Conn. [with list of references cited]; by George L. Snyder. 1964. iv+64+[3] p. il. 1 pl. in pocket. [Prepared in cooperation with Connecticut Geological and Natural History Survey. Includes title page and contents to Bulletin 1161. Contributions to general geology. Plate is colored.] \* Paper, \$1.00.
- 18110 1180-A. Cretaceous stratigraphy of McCarthy A-4 quadrangle, southern Alaska [with list of references cited]; by David L. Jones and Henry C. Berg. 1964. iii+18 p. il. 1 pl. in pocket. [Description of lithology and paleontology of 3 units of formational rank in upper Chitina Valley region of Alaska. Contributions to stratigraphic paleontology.] \* Paper, 45c.
- 18111 1181-K. Surficial geology of central Kobuk River Valley, northwestern Alaska [with list of references cited]; by Arthur T. Fernald. 1964. iii+31 p. il. 1 pl. in pocket. [Reconnaissance study of glacial, eolian, and alluvial history of parts of Shungnak and Ambler River quadrangles. Contributions to general geology. Plate is colored.] \* Paper, \$1.00.
- 18112 1181-M, N. Geologic sketch of northwestern Oregon [with list of references], by P. D. Snively, jr., and H. C. Wagner; [and] Geologic interpretation of reconnaissance gravity and aeromagnetic surveys in northwestern Oregon [with list of references]; by R. W. Bromery and P. D. Snively, jr. 1964. [41] p. il. 3 pl. in pocket. [Contributions to general geology.] \* Paper, \$1.00.
- 18113 1185-A. Uranium at Morro do Vento, Serra de Jacobina, Brazil [with list of references cited]; by Max G. White. 1964. iii+18+[1] p. il. 2 pl. in pocket. [Prepared for Atomic Energy Commission on behalf of Brazilian National Nuclear Energy Commission. Uranium investigations in Brazil.] \* Paper, 40c.
- 18114 1196. Bibliography of North American geology, 1960; [by] James W. Clarke [and others]. 1964. iii+777 p. \* Paper, \$2.25.  
L.C. card GS 24-38

## Circulars. †

I 19.4/2: (nos.)

- 18115 459. Story of ground water in San Joaquin Valley, Calif.; by R. H. Dale, J. J. French, and H. D. Wilson, jr. 1964. iii+11 p. il. 4° [Prepared in cooperation with California Department of Water Resources.]  
L.C. card GS 64-333
- 18116 464. Floods in New Mexico, magnitude and frequency [with list of references cited]; by Leon A. Wiard. 1962. iii+13 p. il. 4° [Prepared in cooperation with New Mexico State Highway Department.]  
L.C. card GS 64-337
- 18117 466. Notes on earth fissures in southern Arizona [with list of references cited]; by G. M. Robinson and D. E. Peterson. 1962. iii+7 p. il. 1 pl. in pocket, 4°
- 18118 467. Floods of Feb. 1962 in southern Idaho and northeastern Nevada; by Cecil A. Thomas and Robert D. Lamke. 1962. iii+30 p. il. 4°  
L.C. card GS 64-341
- 18119 468. Ground-water studies and analog models; by J. Robinove. 1962. iii+12 p. il. 4°  
L.C. card GS 64-339
- 18120 469. Water and Southwest, what is future? [with one reference]; by H. E. Thomas. 1962. iii+15 p. il. 4°  
L.C. card GS 64-336
- 18121 470. Sediment discharge during floods in eastern Nebraska; by J. C. Mundorff. 1962. iii+8 p. il. 4°  
L.C. card GS 64-335
- 18122 475. Mineralization associated with magnetic anomaly in part of Ely quadrangle, Nev. [with list of references]; by Arnold L. Brokaw [and others]. 1962. [2]+7 p. il. 4°  
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- 18123 483. Summary of developed and potential waterpower of United States and other countries of world, 1955-62 [with list of references]; by Loyd L. Young. [1964.] iv+38 p. 4°  
L.C. card GS 64-338
- 18124 484. Exploratory laboratory study of lateral turbulent diffusion at surface of alluvial channel [with list of references]; by W. W. Sayre and A. R. Chamberlain. 1964. iv+18 p. il. 4°  
L.C. card GS 64-340

## Professional papers. ● Item 624

I 19.16: (nos.)

- 18125 331-B. Neogastropoda, Opisthobranchia and Basommatophora from Ripley, Owl Creek, and Prairie Bluff formations [with list of references]; by Norman F. Sohl. 1964. iv+153-344+[2] p. il. 34 pl., 2 tab. in pocket, 4° [Discussion of late Cretaceous gastropod faunas, including diagnosis of 95 genera and subgenera and 210 named species from Mississippi embayment. Late Cretaceous gastropods in Tennessee and Mississippi.] \* Paper, \$3.25.
- 18126 331-C. Gastropods from Coffee Sand (Upper Cretaceous) of Mississippi [with list of references]; by Norman F. Sohl. 1964. iii+345-395+[5] p. il. 5 pl. 4° [Descriptions of Upper Cretaceous gastropods from Mississippi embayment of Gulf Coastal Plain. Late Cretaceous Gastropods in Tennessee and Mississippi. Includes title page and contents to Professional paper 331.] \* Paper, 60c.
- 18127 391-C. Quantitative interpretation of mineralogical composition from X-ray and chemical data for Pierre shale [with list of literature cited]; by Leonard G. Shultz. 1964. iii+31 p. il. 1 pl. in pocket. [Derivation, reproducibility, and accuracy of modal analyses and calculation of composition of montmorillonitic components. Analytical methods in geochemical investigations of Pierre shale.] \* Paper, 60c.
- 18128 399-B. Eocene megafossils from Ishigaki-shima Ryukyu-retto [with list of references cited]; by F. Stearns MacNeill. 1964. iii+14+[2] p. 3 pl. 4° [Mollusks and new subfamily of cyprasteroid echinoids are recorded from Miyara Formation of Ishigaki-shima, formation which previously has yielded only Foraminifera. Geology and Paleontology of Ishigaki-shima, Ryukyu-retto.] \* Paper, 30c.
- 18129 418-B. Middle Bajocian ammonites from Cook Inlet region, Alaska [with list of literature cited]; by Ralph W. Imlay. 1964. iv+61+[2] p. il. 29 pl. 4° [Description and illustrations of cephalopods of Middle Jurassic [middle Bajocian] age. Jurassic ammonites from southern Alaska.] \* Paper, \$1.25.
- 18130 452-A. Principles of underfit streams [with list of references cited]; by G. H. Dury. 1964. iv+67 p. il. 2 pl. in pocket 4° [General theory of meandering valleys.] \* Paper, \$1.00.
- 18131 452-B. Subsurface exploration and chronology of underfit streams [with list of references]; by G. H. Dury. 1964. iv+56 p. il., 1 tab. in pocket, 4° [General theory of meandering valleys.] \* Paper, \$1.00.
- 18132 453. Geology of Abajo Mountains area, San Juan County, Utah [with list of literature cited]; by Irving J. Witkind. 1964. v+110 p. il. 6 pl. in pocket, 4° [Prepared on behalf of Atomic Energy Commission. Study of major laccolithic center on Colorado Plateau. Some plates are colored.] \* Paper, \$2.25.  
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- 18133 454-J. Geology of Bullfrog quadrangle and ore deposits related to Bullfrog Hills caldera, Nye County, Nev. and Inyo County, Calif. [with list of references]; by Henry R. Cornwall and Frank J. Kleinhampl. 1964. iv+25 p. il. 9 pl. and 1 tab. in pocket, 4° [Prepared in cooperation with Nevada Bureau of Mines. Shorter contributions to general geology. Some plates are colored.] \* Paper, \$1.75.
- 18134 454-N. Miocene floras from Fingerrock Wash, southwestern Nevada [with list of references cited]; by Jack A. Wolfe. 1964. iii+36+[2] p. 12 pl. 4° [Description of fossil plants from southern Great Basin, with emphasis on their significance to phytogeography and floristic evolution. Shorter contributions to general geology.] \* Paper, 60c.
- 18135 454-O. Relationship of Precambrian quartzite-schist sequence along Coal Creek to Idaho Springs Formation, Front Range, Colo. [with list of literature cited]; by John D. Wells, Douglas M. Sheridan, and Orden L. Albee. 1964. iii+25+[4] p. il. 1 pl. in pocket, 4° [Prepared partly on behalf of Atomic Energy Commission. Includes title page and contents to Professional paper 454. Shorter contributions to general geology. Plate is colored.] \* Paper, \$1.00.
- 18136 462-A. Discharge of sands and mean-velocity relationships in sand-bed streams [with list of references]; by Bruce R. Colby. 1964. vii+47 p. il. 4° [Sediment transport in alluvial channels.] \* Paper, 40c.
- 18137 483-C. Marine Jurassic pelecypods from central and southern Utah [with list of literature cited]; by Ralph W. Imlay. 1964. iii+42+[2] p. il. 4 pl. 4° [Descriptions and illustrations of marine pelecypods of Jurassic age. Contributions to paleontology.] \* Paper, 50c.

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## Professional papers—Continued

- 18138 483-E. Multinodose scaphitid cephalopods from lower part of Pierre shale and equivalent rocks in conterminous United States [with list of references cited]; by William A. Cobban and Glenn R. Scott. 1964. iii+13+[2] p. il. 4 pl. 42. [Three species of ammonites, assigned to new genus *Trachyscaphites*, provide means for correlation of Upper Cretaceous strata between western interior, Gulf coastal plain, and Europe. Contributions to paleontology.] \* Paper, 30c.
- Water-supply papers. ● Item 625 I 19.13: (nos.)
- 18139 1591-B. Effect of urban growth on streamflow regimen of Permanente Creek, Santa Clara County, Calif. [with list of references cited]; by E. E. Harris and S. E. Rantz. 1964. iii+18 p. il. [Prepared in cooperation with California Department of Water Resources. Hydrologic effects of urban growth.] \* Paper, 20c.
- 18140 1690. Bibliography and discussion of flood-routing methods and unsteady flow in channels; by Vujica M. Yevdjovich. 1964. iii+235 p. [Prepared in cooperation with Soil Conservation Service of Department of Agriculture.] \* Paper, \$1.00.
- 18141 1694. Geology and ground-water conditions in Wilmington-Reading area, Mass. [with list of selected references]; by John A. Baker, Henry G. Healy, and O. M. Hackett. 1964. v+80+[1] p. il. 5 pl. in pocket. [Prepared in cooperation with Commonwealth of Massachusetts, Department of Public Works. One plate is colored.] \* Paper, \$1.75.
- L.C. card GS 64-348
- 18142 1723. Compilation of records of surface waters of United States, Oct. 1950–Sept. 1960: pt. 2-A. South Atlantic slope basins, James River to Savannah River; [prepared in Water Resources Division]. 1964. ix+303 p. il. 1 pl. in pocket. \* Paper, \$1.50.
- L.C. card GS 64-191
- 18143 1727. Compilation of records of surface waters of United States, Oct. 1950–Sept. 1960: pt. 4, St. Lawrence River basin; prepared [in Water Resources Division]. 1964. x+379 p. il. 1 pl. in pocket. \* Paper, \$2.00.
- L.C. card GS 64-191
- 18144 1728. Compilation of records of surface waters of United States, Oct. 1950–Sept. 1960: pt. 5, Hudson Bay and upper Mississippi River basins; prepared [in Water Resources Division]. 1964. xiii+576 p. il. 1 pl. in pocket. \* Paper, \$2.50.
- L.C. card GS 64-191
- 18145 1731. Compilation of records of surface waters of United States, Oct. 1950–Sept. 1960: pt. 7, Lower Mississippi River basin; prepared [in Water Resources Division]. 1964. xiii+552 p. il. 1 pl. in pocket. \* Paper, \$2.50.
- L.C. card GS 64-191
- 18146 1749. Geology and ground-water resources of Nobles County and part of Jackson County, Minn. [with list of literature cited]; by Ralph F. Norvitch. 1964. iv+70+[1] p. il. 5 pl. in pocket. [Prepared in cooperation with Division of Waters, Minnesota Department of Conservation, and City of Worthington.] \* Paper, \$1.25.
- L.C. card GS 64-317
- 18147 1768. Hydrology of Babylon-Islip area, Suffolk County, Long Island, N.Y. [with list of references cited]; by E. J. Pluhowski and I. H. Kantrowitz. 1964. v+120 p. il. and portfolio of 8 pl. [Prepared in cooperation with Suffolk County Board of Supervisors, Suffolk County Water Authority, and New York State Water Resources Commission.] \* Paper, \$2.50.
- L.C. card GS 64-332
- 18148 1769. Chemical quality of surface waters, and sedimentation in Grand River drainage basin, N. and S. Dak. [with list of literature cited]; by C. H. Hembree, R. A. Krieger, and P. R. Jordan. 1964. viii+78+[1] p. il. 4 pl. in pocket. [Prepared as part of program of Department of Interior for development of Missouri River basin.] \* Paper, 75c.
- L.C. card GS 64-351
- 18149 1779-K. Chemical quality of surface waters in Brazos River basin in Texas [with list of selected references]; by Burdge Irelan and H. B. Mendieta. 1964. vi+70 p. il. 4 pl. in pocket. [Prepared in cooperation with Brazos River Authority and Texas Water Commission. Contributions to hydrology of United States.] \* Paper, \$1.00.
- 18150 1779-L. Discharge ratings for streams at submerged section controls [with list of references]; by Wm. S. Eisenlohr, jr. 1964. iii+32 p. il. 1 pl. in pocket. [Theory and application of rating curves for section controls. Contributions to hydrology of United States.] \* Paper, 50c.
- 18151 1779-S. Evaluation of hydrogeology and hydrogeochemistry of Truckee Meadows area, Washoe County, Nev. [with list of references cited]; by Philip Cohen and Omar J. Loeltz. 1964. v+63 p. il. 3 pl. in pocket. [Prepared in cooperation with Nevada Department of Conservation and Natural Resources. Contributions to hydrology of United States.] \* Paper, \$1.25.

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- 18152 1809-E. Galleries and their use for development of shallow ground-water supplies, with special reference to Alaska [with list of references cited]; by Alvin J. Feulner. 1964. v+16 p. il. [Prepared on behalf of Air Force Alaskan Air Command. Contributions to hydrology of United States.] \* Paper, 15c.

**HEALTH, EDUCATION, AND WELFARE DEPARTMENT**  
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- 18153 HEW, 1963 facts and figures. [1964.] 20 p. il. † ● Item 445-F  
L.C. card 61-60343 FS 1.21: 963
- 18154 Medical education in Soviet Union, report of delegation on medical education under US-USSR cultural exchange agreement, Oct. 20-Nov. 8, 1963. [1964.] ix+51 p. il. 4° (Office of the Secretary.) \* Paper, 40c.  
● Item 445  
L.C. card 64-62643 FS 1.2: So 8
- 18155 New approaches to mental retardation and mental illness [with list of selected references; by Wilbur J. Cohen, Arthur J. Lesser, and Wallace K. Babington]. [July 1, 1964.] [3]+21 p. 4° (Secretary's Committee on Mental Retardation.) [Adapted from article of same title, appearing in Health, education, and welfare indicators, Nov. 1963.] †  
FS 1.2: M52/6

**HOUSING AND HOME FINANCE AGENCY**  
Washington, D.C. 20410

- 18156 Bibliography on housing, building and planning for use of overseas missions of United States Agency for International Development; prepared by Library, Office of Administrator. Revised May 1964. [1964.] [2]+i+52 p. 4° (Office of International Housing.) † ● Item 581-D  
L.C. card 64-62693 HH 1.23: H 81/2/964

**IMMIGRATION AND NATURALIZATION SERVICE, Justice Dept.**  
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- 18157 [Federal textbook on citizenship: Becoming a citizen series], bk. 3, Our Government. 1964. xii+128+[1] p. il. map, 4° [An index, 7 p., was issued also.] \* Paper, \$1.25. ● Item 724  
L.C. card 64-61622 J 21.9: C 49/4/bk. 3
- 18158 — Our Constitution and Government, lessons on Constitution and Government of United States for use in public schools by candidates for citizenship, simplified edition; prepared by John G. Hervey. Revised 1964. [1964.] iv+228 p. il. map. (M-8.) [Includes Declaration of Independence and Constitution of United States. Original edition prepared by Catheryn Seckler-Hudson.] \* Paper, \$1.25. ● Item 724  
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- 18159 United States immigration laws, general information. [Revised] 1964. [1964.] v+25 p. narrow 8° (M-50.) \* Paper, 15c. ● Item 726  
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**INFORMATION OFFICE, Agriculture Dept.**  
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- Service, USDA's report to consumers. [Monthly.] † A 21.29: (nos.)  
18160 no.1— Nov. 1963—

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## INTERIOR DEPARTMENT

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- 18161 Decisions of Department of Interior, Jan.-Dec. 1963; edited by E. M. Kimball, Vera E. Burgin. 1964. v. 70, lxi+596 p. \* Cloth, \$2.75.  
 ● Item 602  
 L.C. card 7-23651 I 1.69: 70
- [Saline water research and development progress reports.] I 1.88: (nos.)
- 18162 101. 1st annual report, Saline water demonstration plant no. 3, Webster, S. Dak., Mar. 1962-June 1963 [with list of literature cited]; by Mason-Rust. Mar. 1964. 141 p. il. 4° (Office of Saline Water.) [Series designated on title page as Saline water conversion progress report.] Φ Paper, \$2.75 (181680).  
 L.C. card 64-62731
- 18163 102. Desalination by electrosorption and desorption; by Robert E. Lacey, Edward W. Lang, Southern Research Institute, Birmingham, Ala. July 1964. [2]+iv+35 p. il. 4° (Office of Saline Water.) Φ Paper, \$1.25 (PB 181683).  
 L.C. card 64-62728
- 18164 Sea water conversion Research and Development Test Station, Wrightsville Beach, N.C. [1964.] [8] p. il. (Office of Saline Water.) †  
 ● Item 604-A I 1.87: W 93

## INTERNAL REVENUE SERVICE, Treasury Dept.

Washington, D.C. 20220

- 18165 Federal gas tax refund for nonhighway and transit users. [Revised June 1964.] [1964.] 15 p. il. (Publication 378.) † ● Item 961  
 T 22.19: G21/2/964
- 18166 Statistics of income, 1961-62: Corporation income tax returns, with accounting periods ended July 1961-June 1962; prepared by Statistics Division. [1964.] v+362 p. il. 4° (Publication 16(7-64).) \* Paper, \$2.00. ● Item 964  
 L.C. card 61-37568 T 22.35/2: C 81/961-62
- 18167 Statistics of income, 1962, preliminary, individual income tax returns for 1962. [1964.] [2]+ii+24 p. il. 4° (Publication 198 (7-64).) \* Paper, 20c. ● Item 964  
 L.C. card 20-26969 T 22.35/3: In 2/962
- 18168 Tobacco tax guide, transmittal 2 [1964.] [97] p. 4° (Publication 464.) [Issued in loose-leaf form.] \* Paper, \$3.50 (including basic guide and supplementary material for an indefinite period); \$1.00 additional for foreign mailing. ● Item 956-A T 22.19/5: 964/trans. 2

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- Overseas business report OBR (series). [Issued irregularly. Combines 3 parts of former World trade information service.] \* Paper, \$18.00 a yr., \$12.00 additional for foreign mailing; single copy, each 15c. (1-3 yr. subs.). ● Item 231-B C 42.20: (nos.)
- 18169 64-71. Basic data on economy of Aden and Federation of South Arabia [with bibliography]; prepared by Thomas W. Firor. June 1964. 5 p. il. 4° [Supersedes WTIS, pt. 1, no. 58-62.]
- 18170 64-73. Foreign trade regulation of Venezuela; prepared in American Republics Division, Office of International Regional Economics. June 1964. 8 p. 4° [Supersedes OBR 63-80; WTIS, pt. 2, nos. 61-18 and 58-4.]
- 18171 64-74. Basic data on economy of Ecuador [with bibliography]; prepared by Mildred Phoebus Burr. June 1964. 10 p. il. 4° [Supersedes WTIS, pt. 1, no. 60-50.]
- 18172 64-75. Basic data on economy of Brazil [with bibliography]; prepared by Gertrude Heare. June 1964. 24 p. il. 4° [Supersedes WTIS, pt. 1, no. 58-87.]
- 18173 64-76. Market factors in Peru; prepared by Richard H. Mullins. June 1964. 12 p. 4°

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- 18174 64-77. Foreign trade regulations of Hong Kong; prepared by Dawn A. Wachtel. June 1964. 9 p. 4° [Supersedes WTIS, pt. 2, no. 60-51 and OBR 63-55.]
- 18175 64-78. Establishing business in Malaysia [with bibliography]; prepared by Louise H. Hillson. June 1964. 18 p. 4° [Supersedes WTIS, pt. 1, no. 60-36.]
- 18176 64-79. Investment factors in Indonesia; prepared by M. Virginia Webbert. June 1964. 10 p. 4°
- 18177 64-80. Basic data on economy of Dominican Republic [with bibliography]; prepared by Alfred Ortiz. June 1964. 22 p. il. 4° [Supersedes WTIS, pt. 1, no. 57-79.]
- 18178 64-81. United States trade with European Economic Community, 1962-63; prepared in International Trade Analysis Division]. [Aug. 1964.] 28 p. il. 4°
- 18179 64-82. Establishing business in Mexico; prepared by Katherine E. Rice. July 1964. 26 p. 4° [Supersedes WTIS, pt. 1, no. 60-3.]
- 18180 64-83. Basic data on economy of Yugoslavia [with bibliography]; prepared by Arthur J. Laemmerzahl. July 1964. 14 p. il. 4° [Supersedes WTIS, pt. 1, no. 60-15.]
- 18181 64-84. Trade of United States with Sino-Soviet bloc, 1961-63; [prepared by International Trade Analysis Division, Office of International Regional Economics.] July 1964. 15 p. 4° [Supersedes OBR 63-115.]
- 18182 64-86. Selling in Iran; prepared in Near East-South Asia Division, Office of International Regional Economics. July 1964. 8 p. 4° [Based on Information from American Embassy, Tehran.]
- 18183 64-88. Basic data on economy of Rumania; prepared by Ferdinand F. Pirhalla. Aug. 1964. 16 p. il. 4°
- 18184 64-89. Foreign trade regulations of Taiwan; prepared by Dawn A. Wachtel. Sept. 1964. 9 p. 4° [Supersedes WTIS, pt. 2, nos. 55-49, 61-2, and 62-22.]
- 18185 64-90. Foreign trade regulations of Liberia; prepared by Nancy V. Rawls. Aug. 1964. 6 p. 4° [Supersedes WTIS, pt. 2, nos. 57-8 and 59-7.]
- 18186 64-91. United States foreign trade, Jan.-May 1964; [prepared in International Trade Analysis Division]. Sept. 1964. 32 p. il. 4°
- 18187 64-92. Foreign trade regulations of Republic of South Africa; prepared by Africa Division, Office of International Regional Economics. Aug. 1964. 7 p. 4° [Supersedes WTIS, pt. 2, nos. 61-55, and OBR 63-24.]

## INTERNATIONAL DEVELOPMENT AGENCY, State Dept. Washington, D.C. 20520

- 18188 Voluntary foreign aid programs, reports of American voluntary agencies registered with Advisory Committee on Voluntary Foreign Aid, Jan. 1-Dec. 31, 1963. [Aug. 28, 1964.] [2]+6 p. oblong 8° (W-409; Voluntary Foreign Aid Service, Office of Material Resources [Statistics and Reports Division].) †  
L.C. card 63-62058 S 18.19: 963-3

## INTERSTATE COMMERCE COMMISSION Washington, D.C. 20423

- 18189 Cost of transporting freight by class 1 and class 2 motor common carriers of general commodities by regions or territories, 1963; [prepared by Cost Finding Section]. Aug. 1964. cover title, [1]+vi+195 p. 4° (Statement 7-64; Bureau of Accounts.) [This study, issued as information, has not been adopted by Interstate Commerce Commission.] \* Paper, \$1.00. ● Item 682-A  
L.C. card A 64-7663 IC 1 acco.2: F 88/16/963
- 18190 Decisions of Interstate Commerce Commission, Dec. 1960-June 1961. 1964. xxii+887 p. (Interstate Commerce Commission reports, v. 313.) \* Cloth, \$4.00. ● Item 677  
L.C. card 8-30656 IC 1.6: 313

Railroad accident investigation report. †

- 18191 4004. Southern Pacific Co., Watson, Calif., Jan. 23, 1964. [1964.] 9 p. il. 1 pl. 4°  
IC 1 acc1.5: 4004

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- 18570 26267. Criterion of optimum economics, USSR [with list of references]; by V. F. Pugachev. Sept. 3, 1964. [2]+44 p. il. 4° [From Ekonomiko-matematicheskiye metody, vypusk 1, Narodnokhozyaystvennyye modeli, teoreticheskiye voprosy potrebleniya, no. 1, 1963.] Φ Paper, \$2.00 (TT: 64-41526).
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- 18580 26277. Economics of machine building, organization and planning of enterprises, USSR [with bibliography]; edited by P. A. Zhukov. Sept. 8, 1964. [2]+a-c+1-356a, 357-447 p. il. 4° Φ Paper, \$7.50 (TT: 64-41536).
- 18581 26278. Fluorine, irradiation, and tumors, USSR [excerpts with lists of references]. Sept. 8, 1964. [2]+a+1-12a, 13-23 p. 4° Φ Paper, \$2.00 (TT: 64-41537).
- 18582 26279. Fundamentals of mining science, USSR; by G. I. Mankovskiy. Sept. 8, 1964. [2] p.+5 leaves, 4° [From Izvestiya Akademii Nauk SSSR, metallurgiya i gornoe del., no. 3, 1964.] Φ Paper, \$1.00 (TT: 64-41538).
- 18583 26280. Mechanization and automation of metallurgical production, USSR. Sept. 8, 1964. [2]+9 p. 4° Φ Paper, \$1.00 (TT: 64-41539).
- 18584 26281. Index of La Stampa and La Stampa sera, no. 224 (Aug. 24-30, 1964). Sept. 8, 1964. [2]+9 p. 4° Φ Paper, \$1.00 (TT: 64-41540).  
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- 18607 Address by Assistant Secretary of Labor Daniel Patrick Moynihan to Northeast Regional Conference of American Public Welfare Association, American social and economic revolution, for whose benefit?, Atlantic City, N.J., Sept. 11, 1964. [1964.] [1]+30 leaves, 4° L 1.13: M 87/3
- 18608 Excerpts from remarks by Secretary of Labor W. Willard Wirtz at Traditional Wreath-Laying Ceremony in honor of Cardinal Gibbons, Washington, D.C., Labor Day, 1964. Sept. 7, 1964. 5 leaves, 4° (USDL-6336.) † L 1.13: W 74/48
- Manpower evaluation report.
- 18609 3. Occupational training of women under Manpower development and training act: [prepared by Helen Wood, Jeanette Siegel, and Benjamin Goldstein]. July 1964. cover title, iii+19 p. il. (Office of Manpower, Automation and Training.) † ● Item 746-F L 1.39/2: 3  
L.C. card L 64-109
- 18610 Study of factors in workers' decisions to forego retraining under Manpower development and training act of 1962; by William F. Brazziel, Norfolk Division, Virginia State College. June 1964. [2] leaves+ii+57 p. 4° [Prepared in cooperation with Office of Manpower Automation and Training, Labor Department.] † L 1.2: F 11/2
- Technical assistance aid.
- 18611 5. Requirements for electing union officers, as prescribed in title 4 and related provisions of Labor-management reporting and disclosure act. Revised June 1964. [1964.] 58+[6] p. il. ([Labor-Management Services Administration]; Office of Labor-Management and Welfare-Pension Reports.) [Last 7 pages are left blank to be used as notes.] \* Paper, 25c. ● Item 762-D-2 L.C. card L 61-59 L 1.48: 5

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### Bulletins. ● Item 763

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- 18613 258 (rev.). Welcome stranger! guide to community efforts to improve conditions for agricultural migrants, good-bye friend [with list of selected reference materials for community councils; prepared by Thelma H. Harper]. July 1964. v+14 p. † L.C. card L 64-106
- 18614 265. Inorganic acids [with list of references]. [1964.] cover title, 1+27 p. (Safety in industry; Environmental and chemical hazards no. 6.) \* Paper, 15c. L.C. card L 64-112
- 18615 Maritime safety data for shipyards: Important physical properties of common flammable liquids and gases. [July 1964.] 5 p. 4° † L 16.47/2: F 61
- 18616 — Operation of wheatstone bridge type of combustible gas indicator and interpretation of readings. [1964.] 3 p. 4° † L 16.47/2: G 21
- 18617 Minutes, annual meeting, President's Committee on Employment of the Handicapped, Washington, D.C., Apr. 30 and May 1, 1964. [1964.] cover title, xv+41 p. il. 4° † ● Item 766 L 16.44/2: M 66/964  
L.C. card L 49-14
- 18618 Publicity handbook, program guide, 1964-65. [1964.] iv+30 p. il. (President's Committee on Employment of the Handicapped.) [Includes list of available publications. Text and illustration on p. 2 of cover.] † President's Committee on Employment of the Handicapped, Washington, D.C. 20210. ● Item 766-C L 16.44/2: P 94/964-65

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- 18619 Remarks of Harold Russell, chairman, President's Committee on Employment of the Handicapped before Interstate Conference on Employment Security Agencies, Miami Beach, Fla., Oct. 7, 1964. [1964.] 7 leaves, 4° † L 16.44/3: R 91/2
- 18620 This is President's Committee on Employment of the Handicapped. [1964.] [2]+8+[2] p. † ● Item 766-C L 16.44/2: H 19/964

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## BLS reports.

L 2.71: (nos.)

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- 18622 237-37. Same: detail of expenditures and income; Urban places in western region. 1960-61, supp. 3, pt. A. July 1964. 165 p. 4° (Survey of consumer expenditures, 1960-61.) † ● Item 768-G
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- 18625 237-38. Same: detail of expenditures and income, urban United States, 1960, supp. 3, pt. B. July 1964. 165 p. 4° (Survey of consumer expenditures, 1960-61.) † ● Item 768-G
- 18626 237-84. Same: Rural nonfarm areas in northeastern region, 1961. June 1964. 13 p. 4° (Survey of consumer expenditures, 1960-61; USDA report CES-6.) [Includes Supplement 1, 6 p., dated June 1964.] †  
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- 18627 237-86. Same: Rural nonfarm areas in southern region, 1961. June 1964. 13 p. 4° (Survey of consumer expenditures, 1960-61; USDA report CES-8.) [Includes Supplement 1, 6 p., dated June 1964.] †  
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- 18628 281. Wage chronology: Berkshire Hathaway Inc. (formerly Northern Cotton Textile Associations), 1943-64. July 1964. v+12+[1] p. 4° [Includes materials previously published as Wage chronology 2 and Supplement 1, covering period 1943-48; Supplement 2, 1949-52; and Supplement 3, 1953-64.] \* Paper, 20c. ● Item 768-G  
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- 18630 1385-70. Occupational wage survey: Beaumont-Port Arthur, Tex., May 1964; [prepared by James D. Garland]. July 1964. iii+26 p. oblong 8° \* Paper, 25c.  
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- 18631 1385-72. Same: New York, N.Y., Apr. 1964; [prepared by James R. Tharp]. Aug. 1964. iv+66 p. oblong 8° \* Paper, 40c.  
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- 18641 Injury-frequency rates for selected manufacturing industries, by month and quarter, 1963, revised industry classification. Aug. 14, 1964. 5 p. oblong 8° †  
L 2.77: 963
- Monthly labor review, preprint.
- 18642 2441. Special labor force report: no. 42, Employment of school age youth, Oct. 1963; [by] Harvey R. Hamel. [1964.] 7+A-11 p. il. 4° [From July 1964 issue.] †  
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- 18643 Occupational earnings in major labor markets, 1963-64, summary release, no. 3 of 3 (27 areas). Aug. 1964. 7 p. 4° †  
L 2.86: 963-64/no.3
- 18644 Productivity and technological change in petroleum refining industry, statement presented to Selected Committee on Small Business United States Senate, by Leon Greenberg, Assistant Commissioner for Productivity and Technological Developments, Aug. 11, 1964. [1964.] 20 p. 4° [Some pages are printed as leaves.] †  
L 2.26: G 82/6
- 18645 Program and publications of Division of Foreign Labor Conditions, Sept. 1964. [1964.] 10 leaves, 4° †  
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- 18646 Unemployment among full-time and part-time workers, advance summary, special labor force report. [Aug. 1964.] 5+[2] p. 4° †  
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- 18647 Supplement 4, Aug. 1964, corrections and additions to 1964 Great Lakes pilot. [1964.] cover title, 9 leaves, 4° †  
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- 18651 Library of Congress catalog, music and phono-records, cumulative list of works represented by Library of Congress printed cards, Jan.-June 1964: [compiled and edited by Catalog Maintenance Division]. 1964. iv+193 p. 4° [Semiannual, with annual and quinquennial cumulations.] † Paper, \$4.50 (Semiannual issue and annual cumulations), Card Division  
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- 18653 7-4. Field artillery support [with list of references]. [1964.] [1]+2+xiii+580 p. il. 4° [Issued in loose-leaf form. Supersedes LFM 9, Field artillery, 1951.] \* Paper, \$3.00. ● Item 384  
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18655 64-6. Competitiveness on the sea lanes, by Nicholas Johnson, maritime administrator, Department of Commerce, remarks prepared for delivery before Propeller Club of Los Angeles, Long Beach, Calif., Sept. 16, 1964. [1964.] 6 p. 4°

**MEDICINE AND SURGERY BUREAU (Navy), Defense Dept.**  
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- 18656 Manual of Medical Department, page change 18; Aug. 17, 1964. [1964.] [73] p. il. 4° [Issued in loose-leaf form. Includes checklist of pages in effect.] † D 206.8/2: 952/ch.18

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- 18657 Asbestos; by Timothy C. May. [1964.] [2]+51 p. [Preprint from Minerals yearbook, 1963, v. 1.] \* Paper, 10c. I 28.37/a: As 15/963  
18658 Barite; by Harold J. Drake. [1964.] [2]+12 p. [Preprint from Minerals yearbook, 1963, v. 1.] \* Paper, 10c. I 28.37/a: B 239/963  
18659 Boron; by William C. Miller. [1964.] [2]+9 p. [Preprint from Minerals yearbook, 1963, v. 1.] \* Paper, 10c. I 28.37/a: B 645/963

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- 18660 581. Index of selected gasification patents, 3. Belgian, French, German, Italian, and Swedish patents; compiled by Simon Klosky and Zane E. Murphy. [1964.] iii+197 p. 4° \* Paper, \$1.00. ● Item 636 I 28.3: 581/pt.3  
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18661 Cobalt; by Glen C. Ware. [1964.] [2]+10 p. [Preprint from Minerals yearbook, 1963, v. 1.] \* Paper, 10c. I 28.37/a: C 632/963  
18662 Columbium and tantalum; by Gilbert L. DeHuff and Richard F. Stevens, jr. [1964.] [2]+13 p. [Preprint from Minerals yearbook, 1963, v. 1.] \* Paper, 10c. I 28.37/a: C 723/963  
18663 Disabling work-injury experience of oil industry (all activities) and natural gas industry (including distribution activities) in United States, 1963; prepared by Nell B. Bradley, Mary B. McNair, and Nina L. Jones. Aug. 1964. [2]+14 p. il. 4° † Mines Bureau, Pittsburgh, Pa. 15213  
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- 18664 Feldspar, nepheline syenite, and aplite; by James D. Cooper. [1964.] [2]+9 p. [Preprint from Minerals yearbook, 1963, v. 1.] \* Paper, 10c.  
I 28.37/a: F 333/2/963
- 18665 Fuel briquets and packaged fuel; by Eugene T. Sheridan. [1964.] [2]+17 p. il. [Preprint from Minerals yearbook, 1963, v. 2.] \* Paper, 10c.  
I 28.37/a: B 773/963
- 18666 Graphite; by Harold J. Drake. [1964.] [2]+9 p. [Preprint from Minerals yearbook, 1963, v. 1.] \* Paper, 10c.  
I 28.37/a: G 767/963
- 18667 Gypsum; by William R. Barton. [1964.] [2]+12 p. [Preprint from Minerals yearbook, 1963, v. 1.] \* Paper, 10c.  
I 28.37/a: G 998/963
- Information circulars. I 28.27: (nos.)
- 18668 8228. Examining and testing clay from Hartford County, Conn., for lightweight aggregate use. Clark Brick Co. deposit at South Windsor; by W. T. Millar and H. P. Hamlin. [1964.] [2]+ii+21 p. il. 4° † Mines Bureau, Pittsburgh, Pa. 15213
- 18669 8229. Mineral resources of upper Missouri River basin, Mont., Fort Peck Reservoir to Morony Dam [with bibliography]; by C. R. Hubbard [and others]. [1964.] [2]+iii+60 p. il. 4° † Mines Bureau, Pittsburgh, Pa. 15213  
L.C. card 64-62744
- 18670 8230. Geothermal power, economic evaluation [with selected bibliography]; by Alvin Kaufman. [1964.] [3]+24 p. il. 4° \* Paper, 25c. ● Item 637-A  
L.C. card 64-62830
- 18671 Iron and steel in 1963; prepared by Robert A. Whitman. Aug. 20, 1964. 12 p. 4° (Mineral industry surveys; Iron and steel, annual.) † Mines Bureau, Pittsburgh, Pa. 15213  
I 28.53/4: 963
- 18672 Iron oxide pigments; by Horace T. Reno. [1964.] [2]+5 p. [Preprint from Minerals yearbook, 1963, v. 1.] \* Paper, 5c. I 28.37/a: Ir 6/6/963
- 18673 Minor metals and minerals; by Staff, Division of Minerals. [1964.] [2]+25 p. [Preprint from Minerals yearbook, 1963, v. 1.] \* Paper, 15c.  
I 28.37/a: M 564/3/963
- 18674 Nickel; by Glen C. Ware. [1964.] [2]+15 p. [Preprint from Minerals yearbook, 1963, v. 1.] \* Paper, 10c. I 28.37/a: N 532/963
- 18675 Nitrogen; by Richard W. Lewis. [1964.] [2]+14 p. [Preprint from Minerals yearbook, 1963, v. 1.] \* Paper, 10c. I 28.37/a: N 638/963
- 18676 Perlite; by Timothy C. May. [1964.] [2]+4 p. [Preprint from Minerals yearbook, 1963, v. 1.] \* Paper, 5c. I 28.37/a: P 421/963
- 18677 Phosphate rock; by Richard W. Lewis. [1964.] [2]+22 p. il. [Preprint from Minerals yearbook, 1963, v. 1.] \* Paper, 15c. I 28.37/a: P 566/963
- 18678 Potash; by Richard W. Lewis. [1964.] [2]+15 p. il. [Preprint from Minerals yearbook, 1963, v. 1.] \* Paper, 10c. I 28.37/a: P 847/963
- 18679 Rare-earth minerals and metals; by John G. Parker. [1964.] [2]+10 p. [Preprint from Minerals yearbook, 1963, v. 1.] \* Paper, 10c.  
I 28.37/a: R 182/963
- Report of investigations. I 28.23: (nos.)
- 18680 6477. Properties of hydraulic backfills and preliminary vibratory compaction tests, errata; by David E. Nicholson and William R. Wayment. [1964.] 1 p. 4° † Mines Bureau, Pittsburgh, Pa. 15213
- 18681 6497. Electric smelting of titaniferous iron ores from Alaska, Montana, and Wyoming; by Wesley T. Holmes II, and Lloyd H. Banning. [1964.] [2]+ii+23 p. il. 4° [Based on work done in cooperation with General Services Administration.] † Mines Bureau, Pittsburgh, Pa. 15213
- 18682 6498. Intermetallic compounds in magnesium-rich magnesium-aluminum-zirconium alloys; by R. L. Crosby and L. W. Hixley jr. [1964.] [3]+13 p. il. 4° † Mines Bureau, Pittsburgh, Pa. 15213
- 18683 6499. Low-temperature phase equilibria of natural gas of low helium content [with list of references]; by Will E. DeVaney, Lowell Stroud, and W. J. Boone, jr. [1964.] [3]+17 p. il. 4° † Mines Bureau, Pittsburgh, Pa. 15213
- 18684 6500. Electrical conductivity and density of molten systems of uranium tetrafluoride and thorium fluoride with alkali fluorides [with list of references]; by E. A. Brown and Bernard Porter. [1964.] [3]+18 p. il. 4° † Mines Bureau, Pittsburgh, Pa. 15213

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- 18685 6501. Application of simulation in evaluating low-grade mineral deposits; by Richard F. Hewlett. [1964.] [2]+iv+62 p. il. 4° [Based on work done in cooperation with Bear Creek Mining Co. and College of Mines, University of Arizona.] † Mines Bureau, Pittsburgh, Pa. 15213
- 18686 6502. Bulk density studies on commercial blend of western coking coals; by W. S. Landers, Manuel Gomez, and D. J. Donaven. [1964.] [2]+ii+33 p. il. 4° [Based on work done in cooperation with Kaiser Steel Corp. Columbia-Geneva Steel Division of United States Steel Corp., Colorado Fuel and Iron Corp., and Colorado School of Mines Research Foundation, Inc.] † Mines Bureau, Pittsburgh, Pa. 15213
- 18687 6503. Chromium-gadolinium system [with list of references]; by M. I. Copeland, C. E. Armantrout, and H. Kato. [1964.] [3]+9 p. il. 4° [Based on work done in cooperation with Atomic Energy Commission.] † Mines Bureau, Pittsburgh, Pa. 15213
- 18688 6504. Solubility characteristics of sodium aluminate [with list of references]; by R. V. Lundquist and H. Leirch. [1964.] [2]+ii+19 p. il. 4° † Mines Bureau, Pittsburgh, Pa. 15213
- 18689 6506. Electrorefining of columbium [with list of references]; by R. E. Cumings and F. R. Cattoir. [1964.] [3]+12 p. il. 4° † Mines Bureau, Pittsburgh, Pa. 15213
- 18690 6507. Molten-salt electrorefining of uranium; by F. R. Cattoir and T. A. Sullivan. [1964.] [2]+ii+24 p. il. 4° [Based on work done in cooperation with Lawrence Radiation Laboratory, University of California. Includes list of references in footnotes.] † Mines Bureau, Pittsburgh, Pa. 15213
- 18691 6508. Computer methods of fitting surfaces to assay and other data by regression analysis [with list of references]; by Richard F. Link, George S. Koch, jr., and George W. Gladfelter. [1964.] [2]+ii+69 p. il. 4° [Part of work was done in cooperation with Oregon State University. Part was done at Oregon State University under research grant NSF-G-14189 from National Science Foundation and with financial support from American Philosophical Society. Errata, 1 p., was issued also.] † Mines Bureau, Pittsburgh, Pa. 15213
- 18692 6509. Expandable casting molds for reactive metals [with list of references]; by S. L. Ausmus and R. A. Beall. [1964.] [2]+iii+44 p. il. 4° [Based on work done in cooperation with Atomic Energy Commission.] † Mines Bureau, Pittsburgh, Pa. 15213
- 18693 6510. Separation of lanthanide series and yttrium using phosphonic and imino-diacetic acid resins [with list of references]; by J. O. Winget. [1964.] [3]+15 p. il. 4° † Mines Bureau, Pittsburgh, Pa. 15213
- 18694 6511. Low-temperature heat capacities and entropies at 298.15° K of sulfides of arsenic, germanium, and nickel; by W. W. Weller and K. K. Kelley. [1964.] [3]+7 p. il. 4° † Mines Bureau, Pittsburgh, Pa. 15213
- 18695 6512. Electrolytic extraction of tungsten from western scheelite [with list of references]; by J. M. Gomes, J. B. Zadra, and Don H. Baker, jr. [1964.] [3]+13 p. il. 4° [Based on work done in cooperation with California State Division of Mines and Geology.] † Mines Bureau, Pittsburgh, Pa. 15213
- 18696 6513. Thermodynamic properties of cuprous and cupric ferrites; by R. Barany, L. B. Pankratz, and W. W. Weller. [1964.] [3]+19 p. il. 4° [Includes lists of references in footnotes.] † Mines Bureau, Pittsburgh, Pa. 15213
- 18697 6515. Effect of uranium on isothermal transformation and hardenability of low-alloy steel [with list of references]; by K. A. Fowler and L. W. Higley, jr. [1964.] [3]+18 p. il. 4° [Based on work done in cooperation with Atomic Energy Commission.] † Mines Bureau, Pittsburgh, Pa. 15213
- 18698 6516. Explosibility of metal powders; by Murray Jacobson, Austin R. Cooper, and John Nagy. [1964.] [3]+25 p. il. 4° † Mines Bureau, Pittsburgh, Pa. 15213
- 18699 6517. Application of computers to heat flow and cost analysis in furnace wall design; by M. J. Lempel, D. Bienstock, and J. H. Field. [1964.] [3]+18 p. il. 4° † Mines Bureau, Pittsburgh, Pa. 15213
- 18700 6518. Heats of formation of zirconium carbide and hafnium carbide; by Alla D. Mah. [1964.] [3]+8 p. 4° [Includes lists of references in footnotes.] † Mines Bureau, Pittsburgh, Pa. 15213
- 18701 6519. Improved procedure for synthesis of thiolacetic acid [with list of references]; by R. L. Hopkins and H. T. Rall. [1964.] [2]+6 p. il. 4° [Based on work done in cooperation with American Petroleum Institute, research project 48A. Presented at 16th Southwest Regional Meeting, American Chemical Society, Oklahoma City, Okla., Dec. 1-3, 1960.] † Mines Bureau, Pittsburgh, Pa. 15213
- 18702 6520. Formation damage estimated from water sensitivity tests. Patrick Draw area, Wyo. [with list of references]; by Elliot J. White, Oren C. Baptist, and Carlton S. Land. [1964.] [2]+ii+20 p. il. 4° † Mines Bureau, Pittsburgh, Pa. 15213
- 18703 6521. Hafnium-tantalum equilibrium diagram [with list of references]; by Laurance L. Oden [and others]. [1964.] [3]+12 p. il. 4° [Based on work done in cooperation with Atomic Energy Commission.] † Mines Bureau, Pittsburgh, Pa. 15213

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- 18704 6522. Polynomial surface fitting using sample data from underground copper deposits; by Richard F. Hewlett. [1964.] [3]+27 p. il. 4° [Based on work done in cooperation with Bear Creek Mining Co. and College of Mines, University of Arizona.] † Mines Bureau, Pittsburgh, Pa. 15213
- 18705 6534. Feasibility of inert-gas cushions in gas storages [with list of references]; by C. J. Walker and Ray V. Huff. [1964.] [2]+11+25 p. il. 4° [Based on work done in cooperation with American Gas Association.] † Mines Bureau, Pittsburgh, Pa. 15213
- 18706 6540. Safe use of respiratory protective equipment in work in compressed air detection and physiological effects of gases encountered; by L. B. Berger [and others]. [1964.] [2]+11+40 p. il. 4° † Mines Bureau, Pittsburgh, Pa. 15213
- 18707 Silicon; by Gilbert L. DeHuff. [1964.] [2]+7 p. [Preprint from Minerals yearbook, 1963, v. 1.] \* Paper, 10c. I 28.37/a: Si 34/963
- 18708 Slag, iron-blast-furnace; by Perry G. Cotter. [1964.] [2]+9 p. il. [Preprint from Minerals yearbook, 1963, v. 1.] \* Paper, 10c. I 28.37/a: Sl 1/963
- 18709 Talc, soapstone, and pyrophyllite; by James D. Cooper. [1964.] [2]+8 p. [Preprint from Minerals yearbook, 1963, v. 1.] \* Paper, 10c. I 28.37/a: T 143/963
- 18710 Thorium; by Charles T. Baroch. [1964.] [2]+6 p. [Preprint from Minerals yearbook, 1963, v. 1.] \* Paper, 5c. I 28.37/a: T 392/963
- 18711 Titanium; by John W. Stamper. [1964.] [2]+22 p. il. [Preprint from Minerals yearbook, 1963, v. 1.] \* Paper, 15c. I 28.37/a: T 53/963
- 18712 Uranium; by Charles T. Baroch. [1964.] [2]+25 p. [Preprint from Minerals yearbook, 1963, v. 1.] \* Paper, 15c. I 28.37/a: Ur 1/963
- 18713 Vanadium; by Gilbert L. DeHuff. [1964.] [2]+8 p. [Preprint from Minerals yearbook, 1963, v. 1.] \* Paper, 10c. I 28.37/a: V 26/963

## MISSISSIPPI RIVER COMMISSION (Army), Defense Dept. Vicksburg, Miss. 39180

- 18714 Old River, Louisiana, control structures and navigation lock. 1964. [2] p. il. narrow 8° folded into narrow 8° size. (Army Engineer District New Orleans Corps of Engineers.) † D 103.302: Ol 1/964

## MISSOURI BASIN INTER-AGENCY COMMITTEE

NOTE.—The chairman agency and address for fiscal year 1965 are Public Health Service, Dept. of Health, Education, and Welfare, 560 Westport Road, Kansas City, Mo. 64111

- 18715 Annual report on progress fiscal year 1964 and programming fiscal years 1965 & 1966. June 1964. [3]+148+T-42 p. il. map. 4° [Map is colored. Some pages are issued as leaves.] † L.C. card 61-60376 Y 3.M69: 1/964

## NATIONAL AERONAUTICS AND SPACE ADMINISTRATION Washington, D.C. 20546

- 18716 Goddard projects summary, satellites and sounding rockets. [1964.] cover title, [2]+36 p. il. oblong 12° (Goddard Space Flight Center.) †  
● Item 830-C  
L.C. card 64-61848 NAS 1.2: Sa 8/5  
NASA contractor report CR (series). NAS 1.26: (nos.)
- 18717 91. Spacecraft temperature control by thermostatic fins-analysis [with list of references]; by J. A. Wiebelt and J. F. Parmer. Aug. 1964. cover title, [1]+23 p. il. 4° [Prepared under grant NSG-454 by Oklahoma State University, Stillwater, Okla.] † Paper, 75c. NAS 1.26: 91
- 18718 92. Mechanical properties at 800°, 1000°, and 1200° F of 2 superalloys under consideration for use in supersonic transport [with list of references]; by T. M. Cullen and J. W. Freeman. Sept. 1964. cover title, [1]+vi+52 p. il. 4° [Prepared under grant NSG-124-61 by University of Michigan, Ann Arbor, Mich.] † Paper, \$1.50.

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- 18719 93. Cellular aluminum for use in energy dissipation systems; by S. Lipson. Sept. 1964. cover title, iii+34 p. il. 4° [Prepared under NASA purchase request L-18, 381 by Frankford Arsenal, Army, Philadelphia, Pa.] Φ Paper, \$1.00.
- 18720 94. Development of power silicon gate controlled switch [with list of references]; by Max P. Schreiner. Sept. 1964. cover title, viii+50 p. il. 4° [Prepared under contract NASS-2638 by Texas Instruments Incorporated, Dallas, Tex.] Φ Paper, \$1.50.
- 18721 96. Boron filaments [with list of references]; by Robert M. Witucki. Sept. 1964. cover title, [1]+ii+17 p. il. 4° [Prepared under contract NASW-652 by Astro Research Corporation, Santa Barbara, Calif.] Φ Paper, 50c.
- 18722 97. Tides in atmospheres of Earth and Mars [with list of references]; by Richard A. Craig. Sept. 1964. cover title, v+45 p. il. 4° [Prepared under contract NASW-704 by Geophysics Corporation of America, Bedford, Mass.] Φ Paper, \$1.50.  
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- 18723 99. Relative operating capabilities of selected electric-arc reentry environment simulators; by N. K. Hiester and C. F. Clark. Sept. 1964. cover title, iv+24 p. il. 4° [Prepared under contract NASr-49(15) by Stanford Research Institute, Menlo Park, Calif.] Φ Paper, 75c.
- 18724 NASA headquarters telephone directory, Washington, D.C. 20546, Aug. 1964. [1964.] cover title, iv+48 p. 4° [Text and illustration on p. 2-4 of cover.] \* Paper, 35c. NAS 1.24: 964/2
- 18725 NASA-PERT C computer systems manual. [Sept. 1964 edition.] Sept. 1964. ix+92+[26] p. il. 4° ([NPC 101-2A.]) [Supersedes issues dated Jan. 1963 and June 1963.] \* Paper, 60c. ● Item 830-F  
L.C. card 64-62707 NAS 1.18: P 94/3/964
- 18726 NASA scientific and technical publications and how to obtain them. [1964.] [8] p. il. narrow 8° (Scientific and Technical Information Division.) † ● Item 830-J NAS 1.9/2: Sci2
- NASA Sp (series). NAS 1.21: (nos.)
- 18727 3011. Thermodynamic and transport properties for hydrogen-oxygen system [with list of references]; by Roger A. Svehla. 1964. iii+419 p. il. 4° (Scientific and Technical Information Division.) Φ Paper, \$6.00  
L.C. card 64-62451
- 18728 7011 (01). Aerospace medicine and biology, continuing bibliography, selection of annotated references to unclassified reports and journal articles that were introduced into NASA information system Apr.-June 1964. Aug. 1964. [2]+iv+95+90 p. 4° (Scientific and Technical Information Division.) [Compiled in cooperation with Aerospace Medicine and Biology Bibliography Project (AMBBP) of Library of Congress and American Institute of Aeronautics and Astronautics.] Φ Paper, \$1.00.  
L.C. card 64-62433
- 18729 7014. Bibliography related to human factors system program (July 1962-Feb. 1964); by Richard J. Potocko. 1964. v+237 p. 4° (Scientific and Technical Information Division.) Φ Paper, \$3.50.  
L.C. card 64-62679
- NASA technical note TN (series). NAS 1.14: D-(nos.)
- 18730 D-1845. Temperature of gray body most closely fitting solar extraterrestrial spectrum; by William B. Fussell and John B. Schutt. Aug. 1964. cover title, [1]+iii+7+[1] p. il. 4° Φ Paper, 50c.
- 18731 D-1862. Radiation dosimetry aboard spacecraft of 8th Mercury-Atlas mission (MA-8) [with list of references]; by Carlos S. Warren and William L. Gill. Aug. 1964. cover title, [1]+20+[1] p. il. 4° Φ Paper, 50c.
- 18732 D-2039. Diffusion studies of several oxidation resistant coatings on Mo-0.5Ti molybdenum alloy at 2,500° F [with list of references]; by Bland A. Stein and W. Barry Lisagor. Aug. 1964. cover title, [1]+36+[1] p. il. 4° Φ Paper, \$1.00.
- 18733 D-2040. Study of several oxidation-resistant coatings on Mo-0.5Ti alloy sheet at 2,500° F [with list of references]; by Donald R. Rummier, Bland A. Stein, and Richard A. Pride. Aug. 1964. cover title, [1]+78+[2] p. il. 4° Φ Paper, \$2.00.
- 18734 D-2234. General solution of laminar compressible boundary layer in stagnation region of blunt bodies in axisymmetric flow [with list of references]; by Fred W. Matting. July 1964. cover title, [1]+ix+169 p.+[2] leaves, il. 4° Φ Paper, \$3.00.  
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- 18735 D-2351. Atmospheric acoustics as factor in Saturn static testing [with list of references]; by Richard N. Tedrick. July 1964. cover title, iv+138+[4] p. il. 4° Φ Paper, \$2.75.
- 18736 D-2361. Guidance equations for quasi-optimum space maneuvers [with list of references]; by D. J. Jezewski. Aug. 1964. cover title, [1]+44+[1] p. il. 4° Φ Paper, \$1.25.

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- 18737 D-2368. Aerodynamic characteristics of full-scale fan-in-wing model including results in ground effect with nose-fan pitch control [with list of references]; by Jerry V. Kirk, David H. Hickey, and Leo P. Hall. July 1964. cover title, [1]+145 p.+ [2] leaves, il. 4°  $\Phi$  Paper, \$2.75.
- 18738 D-2383. Heat-transfer rates and ablation on blunt cylinder-flare configuration in free flight up to Mach number of 8.98 [with list of references]; by Clyde W. Winters. Aug. 1964. cover title, [1]+27+[1] p. il. 4°  $\Phi$  Paper, 75c.
- 18739 D-2386. Heat transfer on unswept and 38° swept cylindrically blunted wedge fins in free flight to Mach number 4.11 [with list of references]; by Floyd G. Howard. Aug. 1964. cover title, [1]+48+[1] p. il. 4°  $\Phi$  Paper, \$1.25.
- 18740 D-2387. Heat-transfer and pressure measurements on delta wings at Mach numbers of 3.51 and 4.65 and angles of attack from -45° to 45° [with list of references]; by Robert L. Stallings, jr., Paige B. Burbank, and Dorothy T. Howell. Aug. 1964. cover title, [1]+176 p.+ [2] leaves, il. 4°  $\Phi$  Paper, \$3.00.
- 18741 D-2389. Supersonic aerodynamic characteristics of series of bodies having variations in fineness ratio and cross-section ellipticity [with list of references]; by Bernard Spencer, jr., W. Pelham Phillips, and Roger H. Fournier. Aug. 1964. cover title, [1]+76+[1] p. il. 4°  $\Phi$  Paper, \$2.00.
- 18742 D-2397. Radiative equilibrium in planetary atmospheres: 1. Application of strong line absorption law to atmosphere of Venus [with list of references]; by Rudolf A. Hanel and Frank Bartko. Aug. 1964. cover title, [1]+vi+23+[2] p. il. 4°  $\Phi$  Paper, 75c. L.C. card 64-62546
- 18743 D-2398. Experimental and analytical vibration study of ring-stiffened cylindrical shell structure with various support conditions [with list of references]; by John L. Sewall, Robert R. Clary, and Sumner A. Leadbetter. Aug. 1964. cover title, [1]+52+[2] p. il. 4°  $\Phi$  Paper, \$1.50.
- 18744 D-2399. Experimental and analytical investigation of propeller whirl flutter of power plant on flexible wing [with list of references]; by Robert M. Bennett and Samuel R. Bland. Aug. 1964. cover title, [1]+69+[1] p. il. 4°  $\Phi$  Paper, \$1.75.
- 18745 D-2403. Simple model of interplanetary magnetic field: pt. 1. Calculation of magnetic field [with list of references]; by David Stern. Aug. 1964. cover title, [1]+iii+21+[2] p. il. 4°  $\Phi$  Paper, 75c. L.C. card 64-62542
- 18746 D-2404. Simple model of interplanetary magnetic field: pt. 2. Cosmic ray anisotropy [with list of references]; by David Stern. Aug. 1964. cover title, [1]+iii+10+[2] p. il. 4°  $\Phi$  Paper, 50c. L.C. card 64-62542
- 18747 D-2412. Aerodynamic data on large semispan tilting wing with 0.6-diameter chord, single-slotted flap, and single propeller rotating down at tip [with list of references]; by Marvin P. Fink, Robert G. Michell, and Lucy C. White. Aug. 1964. cover title, [1]+144 p.+ [2] leaves, il. 4°  $\Phi$  Paper, \$2.75.
- 18748 D-2413. Application of penetrometers to study of physical properties of lunar and planetary surfaces [with list of references]; by John Locke McCarty, Alfred G. Beswick, and George W. Brooks. Aug. 1964. cover title, [1]+28+[1] p. il. 4°  $\Phi$  Paper, 75c.
- 18749 D-2416. Spring-mass representation of free-free nonuniform bar in response to longitudinal forces [with list of references]; by Harold P. Frisch. Aug. 1964. cover title, [1]+33+[1] p. il. 4°  $\Phi$  Paper, \$1.00.
- 18750 D-2417. Heat-transfer measurements at Mach number of 8 in vicinity of 90° interior corner aligned with free-stream velocity [with list of references]; by P. Calvin Stainback. Aug. 1964. cover title, [1]+40+[1] p. il. 4°  $\Phi$  Paper, \$1.00.
- 18751 D-2418. Study of effectiveness of various methods of vibration reduction on simplified scale models of Nimbus spacecraft [with list of references]; by Huey D. Carden and Robert W. Herr. Aug. 1964. cover title, [1]+24+[1] p. il. 4°  $\Phi$  Paper, 75c.
- 18752 D-2420. Base pressure coefficients obtained from X-15 airplane for Mach numbers up to 6 [with list of references]; by Edwin J. Saltzman. Aug. 1964. cover title, [1]+45+[1] p. il. 4°  $\Phi$  Paper, \$1.25.
- 18753 D-2422. Composition and thermodynamic properties of products of cyanogen-oxygen combustion [with list of references]; by Charles J. Schexnayder, jr. Aug. 1964. cover title, [1]+53+[2] p. il. 4°  $\Phi$  Paper, \$1.50.
- 18754 D-2423. Breakup of various liquid jets by shock waves and applications to resonant combustion [with list of references]; by Gerald Morrell and Frederick P. Pavinelli. Aug. 1964. cover title, [1]+12+[2] p. il. 4°  $\Phi$  Paper, 50c.
- 18755 D-2424. Breakup of liquid jet in transverse flow of gas [with list of references]; by Bruce J. Clark. Aug. 1964. cover title, [1]+46+[2] p. il. 4°  $\Phi$  Paper, \$1.25.

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- 18756 D-2426. Study of powered-descent trajectories for manned lunar landings [with list of references]; by Floyd V. Bennett and Thomas G. Price. Aug. 1964. cover title, [1]+34+[1] p. il. 4°  $\Phi$  Paper, \$1.00.
- 18757 D-2427. Effect of air injection through porous surface and through slots on turbulent skin friction at Mach 3 [with list of references]; by Donald I. McRee, John B. Peterson, jr., and Albert L. Broslow. Aug. 1964. cover title, [1]+38+[1] p. il. 4°  $\Phi$  Paper, \$1.00.
- 18758 D-2430. Low-coverage heat of adsorption: 1, Alkali metal atoms on tungsten, Atom-metal interaction theories [with list of references]; by Harold E. Neustadter and Keung P. Luke. Aug. 1964. cover title, [1]+10+[1] p. il. 4°  $\Phi$  Paper, 50c.
- 18759 D-2431. Low-coverage heat of adsorption: 2, Alkali metal atoms on tungsten, Lennard-Jones atom-atom interaction theory [with list of references]; by Harold E. Neustadter, Keung P. Luke, and Thomas Sheahan. Aug. 1964. cover title, [1]+19+[1] p. il. 4°  $\Phi$  Paper, 50c.
- 18760 D-2432. Minimum drag bodies with cross-sectional ellipticity [with list of references]; by Jerrold H. Suddath and Waldo I. Oehman. Sept. 1964. cover title, [1]+26+[1] p. il. 4°  $\Phi$  Paper, 75c.
- 18761 D-2433. Measurement of errors in manually recording transit times of stars and distant planets [with list of references]; by Kenneth R. Garren and Patrick A. Gainer. Aug. 1964. cover title, [1]+15+[1] p. il. 4°  $\Phi$  Paper, 50c.
- 18762 D-2434. Study of carbonate impurity in surface region of sodium chloride crystals [with list of references]; by Dumas A. Otterson and Myron O. Davies. Aug. 1964. cover title, [1]+12+[1] p. 4°  $\Phi$  Paper, 50c.
- 18763 D-2435. Laminar and turbulent hydrogen heat transfer and friction coefficients over parallel plates at 5000° R [with list of references]; by Jack G. Slaby, William L. Maag, and Byron L. Siegel. Aug. 1964. cover title, [1]+28+[2] p. il. 4°  $\Phi$  Paper, 75c.
- 18764 D-2436. Pilot evaluation of dynamic stability characteristics of supersonic transport in cruising flight using fixed-base simulator [with list of references]; by Milton D. McLaughlin and James B. Whitten. Sept. 1964. cover title, [1]+19+[1] p. il. 4°  $\Phi$  Paper, 50c.
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- 18799 National Aeronautics and Space Administration 16mm film list including motion picture film library location map and service areas. July 1964. 14 p. il. 4° [Supersedes all other NASA headquarters lists.]  $\dagger$   $\bullet$  Item 830-C NAS 1.2: F 48/964-2
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v. 5, nos. 1-3—Jan.—Mar. 1964—

- 18814 Cerebrovascular diseases, review of research grants supported by National Heart Institute and National Institute of Neurological Diseases and Blindness, 1949-64 [with list of references]; by May Sherman, with technical assistance of Nancy J. Hillman. [1964.] vi+261 p. 4° (National Heart Institute Extramural Programs.) \* Paper, \$1.25.  
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- 18816 3. Summary of progress in eye disorders; prepared by Information Office, National Institute of Neurological Disease and Blindness. Nov. 1963 [published 1964.] vi+25 p. il. ([Public Health Service publication 1155.]) [Included in annual statement made to Congress of United States by director of National Institute of Neurological Diseases and Blindness.] \* Paper, 15c.  
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**Proceedings of National Museum. † ● Item 922 SI 3.6: (nos.)**

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- 18835 American ephemeris and nautical almanac [calendar] year 1966. 1964. viii+508 p. il. large 8" [Prepared jointly by H. M. Nautical Almanac Office, Royal Greenwich Observatory and Nautical Almanac Office, U.S. Naval Observatory. Printed separately in United States and United Kingdom.] \* Cloth, \$3.75. ● Item 394  
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- 18848 Instrumentman 1 & C [with reading list; prepared by Navy Training Publications Center]. [1st edition 1950, major revision 1964.] [1964.] cover title, vi+1-291b, 292-400 p. il. 4° (Navy training course; NAVPERS 10194-B.) † ● Item 404  
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- 18849 Trainee's guide for communications yeomen, class A; [prepared by Navy Training Publications Center]. July 1964. cover title, iii-ix+100 p. il. 4° (NAVPERS 93406-3.) [Issued with perforations.] ‡ ● Item 403-A  
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L.C. card 57-60045 D 210.15: ACR-92
- Naval Training Device Center, Port Washington, N.Y.: Technical report NAVTRADEVEN (series). ‡
- 18852 1105-1. Enhancement of fire control technician proficiency by use of training devices [with lists of references; by] T. P. Enderwick, J. M. McKendry, M. S. McKendry. Apr. 1964. cover title, xv+166 p. il. 4° (HRB-Singer, Inc., State College, Pa.; contract N61339-1105.)  
D 210.14: 1105-1
- 18853 1218-1. Development of improved method of task analysis and beginnings of theory of training [with list of references; by] John D. Folley, jr. June 22, 1964. cover title, iv+39 p. il. 4° (Applied Science Associates, Inc., Valencia, Pa.; contract N61339-1218.) [Text on p. 2 of cover.]  
D 210.14: 1218-1
- 18854 1218-2. Guidelines for task analysis; [by] John D. Folley, jr. June 22, 1964. cover title, iv+35 p. il. 4° (Applied Science Associates, Inc., Valencia, Pa.; contract N61339-1218.) [Text on p. 2 of cover.]  
D 210.14: 1218-2
- 18855 1218-3. Review of literature on task analysis methods [with list of references reviewed; by] Andrew P. Chenzoff. June 22, 1964. cover title, ii+25 p. 4° (Applied Science Association, Inc., Valencia, Pa.; contract N61339-1218.) [Text on p. 2 of cover.]  
D 210.14: 1218-3
- 18856 IH-14. Empty visual field studies, some effects of corrective lenses, filters, and structure [with list of references; by] Milton S. Katz, Paul A. Cirincione, William Metlay. June 22, 1964. cover title, iv+23 p. il. 4° (Communications Psychology Division, Human Factors Laboratory, code 553.) [Text on p. 2 of cover.]  
D 210.14: IH-14
- NRL reports. (Naval Research Laboratory.) D 210.8: (nos.)
- 18857 5921. Lightweight transsonde system [with bibliography; by] J. W. Allen and G. Welch. Jan. 30, 1964. cover title, ii+139+[2] p. il. 4° Φ Xerox, \$11.00 (AD 431799).
- 18858 5993. Application of Bose-Chaudhuri error-correcting codes [with list of references; by] F. A. Polkinghorn, jr. Sept. 25, 1963. cover title, 12+[1] p. il. 4° [Contents on p. 2 of cover.] Φ Xerox reproduction, \$1.60 (AD 426311).
- 18859 6018. Analytic formulas for acoustic pressure distribution between spherical transducer and concentric spherical baffle [with list of references; by] S. Hanish. Jan. 17, 1964. cover title, 8+[2] p. il. 4° [Contents on p. 2 of cover.] Φ Xerox reproduction, \$1.10 (AD 435480).

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# GOVERNMENT PUBLICATIONS

## NRL reports—Continued

- 18860 6025. Intercalibration of major North American networks employed in monitoring airborne fission products [with list of references; by] L. B. Lockhart, jr., and K. L. Patterson, jr. Dec. 27, 1963. cover title, i+13+[2] p. il. 4°  $\Phi$  Xerox reproduction, \$1.60 (AD 431760).
- 18861 6038. Proposed phase diagram for system magnesium oxide-vanadium pentoxide [with list of references; by] A. J. Pollard. Feb. 14, 1964. cover title, i+9+[1] p. il. 4°  $\Phi$  Xerox reproduction, \$1.60 (AD 432318).
- 18862 6047. Filament-winding plastics: pt. 1, Molecular structure and tensile properties; [by] J. R. Griffith and F. S. Whisenhunt, jr. Mar. 16, 1964. cover title, i+6+[2] p. il. 4° [NRL problem RO5-24C, project SPO WW-041.]  $\Phi$  Paper, 50c. (AD 435479).
- 18863 6053. 3d annual progress report. Present status of chemical research in atmosphere purification and control on nuclear-powered submarines [with lists of references]; edited by H. W. Carhart and V. R. Piatt. Dec. 31, 1963. cover title, ii+65+[2] p. il. 4°  $\Phi$  Paper, \$1.75 (AD 435518).
- 18864 6056. Investigation of rotating-beam test for low-cycle fatigue crack propagation studies [with bibliography; by] E. A. Lange, T. W. Crooker, and R. E. Morey. Mar. 17, 1964. cover title, ii+15+[2] p. il. 4°  $\Phi$  Paper, 50c. (AD 435560).
- 18865 6074. Submarine atmosphere studies aboard USS Sculpin [with lists of references; by] M. E. Umstead, W. D. Smith, and J. E. Johnson. Feb. 27, 1964. cover title, ii+24+[2] p. il. 4° (Naval Research Laboratory.)  $\Phi$  Xerox reproduction, \$2.60 (AD 433896).
- 18866 6113. Microacoustic system analysis by measurement of free-field sound speed [with list of references; by] W. G. Neubauer and L. R. Dragonette. Aug. 3, 1964. cover title, 11+[4] p. il. 4° (Propagation Branch, Sound Division.) †

## NAVAL WEAPONS BUREAU, Defense Dept. Washington, D.C. 20350

- 18867 Reliability engineering, specifications and reliability assurance, brochure of material presented in film MN877f [MN 8770f], WD-25477, v. 6. June 1, 1964. [1]+i+11 p. 4° \* Paper, 10c. ● Item 408-B-1  
L.C. card 62-61425 D 217.2: R 27/4

## NAVY DEPARTMENT, Defense Dept. Washington, D.C. 20350

- 18868 Material Inspection Service, USN, administration manual: Materiel inspection and receiving report, DD form 250, series. May 1964. cover title, [41] p. 4° (ONMINST 5000.3, v. 2, [Change 84]; Office of Naval Material.) [Revised sec. 1-3 of pt. H of chap. 7, v. 2, and DD 250 handbook. Issued in loose-leaf form.] \* Paper, 35c. ● Item 373  
D 201.6: M 41

## ORDNANCE CORPS (Army), Defense Dept. Washington, D.C. 20310

### Rock Island Arsenal Laboratory: Technical report.

- 18869 High temperature, non-reflective erosion resistant aluminum finish [with list of literature references]; by J. Knanishu. Nov. 26, 1963. v+8 p. 4° (Department of Army project 1-A-O-13001-A-039, AMC code 5016.11.844, report 63-3894.)  $\Phi$  Paper, 50c. (AD 432324). D 105.11: A18

## OUTDOOR RECREATION BUREAU, Interior Dept. Washington, D.C. 20240

- 18870 Remarks of Edward C. Crafts, Director, Bureau of Outdoor Recreation, Department of Interior, before 24th annual conference of National Association of Travel Organizations, New York, N.Y., Sept. 14, 1964. [1964.] 4 leaves, 4° ([52128-64.]) † I 66.9: C 84/16

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- 18871 Remarks of Edward C. Crafts, Director, Bureau of Outdoor Recreation, Department of Interior, before 44th annual meeting of National Conference on State Parks, Morristown, N.J., Sept. 22, 1964. [1964.] 7 leaves+8+[5] p. 4° [Include Fact sheet on land and water conservation fund program, Sept. 9, 1964; Land and water conservation fund act, summary, Sept. 3, 1964; Decisive actions required to be taken by Federal Government to implement act, Sept. 10, 1964; and Decisive actions required to be taken by States to implement act, Sept. 10, 1964.] †  
I 66.9: C 84/17

**PATENT OFFICE, Commerce Dept.**  
Washington, D.C. 20230

- 18872 Manual of classification [replacement pages incorporating changes directed by Classification orders issued subsequent to Mar. 31, 1964, and prior to July 1, 1964.] [July 1964.] [51] p. 4° [Includes list of replacement pages. Issued in loose-leaf form.] \*Paper, \$8.50 (including basic manual, index, and revised pages for approximately 2 years), \$2.00 additional for foreign mailing. ● Item 258 C 21.12: 963/rev.pages-7
- 18873 Manual of patent examining procedure, 3d edition [Nov. 1961, revised pages]. [Jan. 1964.] 2+[126] p. 4° [Includes Revision notice 1. Issued in loose-leaf form. Includes information and instructions published in Change notice 1-1 through 1-19.] \*Paper, \$4.00 (including basic manual and supplementary material for an indefinite period); \$1.00 additional for foreign mailing. ● Item 259 C 21.15: 961/rev.notice 1
- 18874 Patent Office, program goals and action, text of address by Edward J. Brenner, Commissioner of Patents, for delivery before Patent, Trademark and Copyright Section of American Bar Association, New York, N.Y., Aug. 11, 1964. [1964.] 8 p. 4° † C 21.20: B 75/2

**PERSONNEL OFFICE, Agriculture Dept.**  
Washington, D.C. 20250

- 18875 Guide to understanding Department of Agriculture. [Revised Oct. 1963, slightly revised July 1964.] [1964.] cover title, [33] p. il, oblong 12° [Text on p. 2 and 4 of cover.] † ● Item 97 A 49.8: Ag 8/964

**POST OFFICE DEPARTMENT**  
Washington, D.C. 20260

- 18876 Address by John A. Gronouski, Postmaster General, at dedication of Doctors Mayo commemorative stamp, Rochester, Minn., Sept. 11, 1964. [1964.] 5 leaves, 4° (Information Service; General release 168.) †  
P 1.27: G 89/31
- 18877 Address by John A. Gronouski, Postmaster General, at Milwaukee chapter, Association of Industrial Advertisers, Milwaukee, Wis., Sept. 10, 1964. [1964.] 10 leaves, 4° (Information Service, General release 171.) †  
P 1.27: G 89/32
- 18878 Address by John A. Gronouski, Postmaster General, at National Philatelic Exhibitions, Washington, D.C., Sept. 17, 1964. [1964.] 5 leaves, 4° (Information Service, General release 170.) †  
P 1.27: G 89/33
- 18879 Address by John A. Gronouski, Postmaster General, Peoria Advertising and Selling Club, Peoria, Ill., Sept. 14, 1964. [1964.] 7 leaves, 4° (Information Service, General release 172.) †  
P 1.27: G 89/30
- 18880 [Commemorative stamp poster]: 4-cent social security commemorative postal card. 1964. 10.5 x 8 in. P 1.26: So 1

NOTE.—Commemorative stamp posters, which will be issued irregularly, are available on a subscription basis from the Superintendent of Documents, \$1.50 a yr.; 50c. additional for foreign mailing.

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## GOVERNMENT PUBLICATIONS

### PRESIDENT OF THE UNITED STATES

Washington, D.C. 20501

- 18881 Fitness for leadership, suggestions for colleges and universities [with list of selected references]; prepared by President's Council on Physical Fitness. [1964.] cover title, 20 p. il. [Text on p. 2-3 of cover.] \* Paper 15c. ● Item 851-J  
L.C. card 64-62663 Pr 35.8: P 56/L 46
- 18882 Report of President's Commission on Assassination of President John F. Kennedy. [1964.] xxiv+888 p. il. \* Paper, \$2.50; Cloth, \$3.25. ● Item 851-J  
L.C. card 64-62670 Pr 36.8: K 38/R 29

### PRISONS BUREAU, Justice Dept.

Washington, D.C. 20530

NPS, National prisoner statistics (series).

- 18883 34. Executions, 1930-63. May 1964. [14] p. il. 4° † J 16.23: 34

### PUBLIC DOCUMENTS DIVISION, Government Printing Office

Washington, D.C. 20402

- 18884 Government publications relating to satellites, spacecraft, space missiles, on sale by Superintendent of Documents, Government Printing Office, Washington, D.C., 20402. [1964.] [2] p. 4° folded into oblong 48° † ● Item 552 GP 3.22: Sa 8
- 18885 Physical fitness, all American physical fitness program for home, school, community [list of pamphlets prepared by President's Council on Physical Fitness] available from Superintendent of Documents, Government Printing Office, Washington, D.C. [1964.] [2] p. large 8° folded into oblong 48° size. † ● Item 552 GP 3.22: P 56/4/964
- Price list PL (series). † ● Item 554 GP 3.9: (nos.)
- 18886 25. Transportation, highways, roads, and postal service, June 1964. 48th edition. [1964.] [2]+14 p. il. L.C. card 26-26255
- 18887 37. Tariff and taxation; June 1964. 44th edition. [1964.] [2]+16 p. il. L.C. card 25-27512
- 18888 67. Immigration, naturalization, and citizenship; June 1964. 44th edition. [1964.] [2]+4+[2] p. il. L.C. card 26-26387
- 18889 Publications of President's Commission on Status of Women available from Superintendent of Documents, Government Printing Office, Washington, D.C., 20402. [1964.] [2] p. oblong 16° folded into oblong 48° size. † ● Item 552 GP 3.22: W 84
- 18890 ZIP code information, publications for sale by Superintendent of Documents. [1964.] [2] p. oblong 8°, folded into oblong 48° size. † ● Item 552 GP 3.22: Z 6/964

### PUBLIC HEALTH SERVICE, Health, Education, and Welfare Dept.

Washington, D.C. 20201

- 18891 Activities report, Basic and Applied Sciences Branch, Division of Water Supply and Pollution Control, July 1, 1963-June 30, 1964. [1964.] vi+57 p. il. † ● Item 481-C  
L.C. card 64-62571 FS 2.303: 963-64
- 18892 Air pollution publications, selected bibliography, 1955-64, publications by Public Health Service personnel and other persons and organizations receiving Federal air pollution funds; by Anna Grossman-Cooper. 1964. viii+174 p. 4° ([Publication 979, revised 1964]; Division of Air Pollution.) \* Paper, \$1.00. ● Item 481-A  
L.C. card 63-60159 FS 2.24: Ai 7

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- 18893 Are you related to a diabetic? [Revised June 1964.] [1964.] [4] p. il. 12° ([Publication 726; Division of Chronic Diseases, Diabetes and Arthritis Program.]) \*Paper, 5c. ● Item 485 FS 2.2: D 54/8/964
- 18894 Can you answer these questions? [May 1964.] [4] p. il. narrow 12° ([Publication 1201; Division of Dental Public Health and Resources.]) [Question and answers on oral cancer.] \* Paper, \$2.00 per 100; single copy, 5c. ● Item 485 FS 2.2: Q 3
- 18895 Commissioned Officer Student Training and Extern Program, Public Health Service. [1964.] cover title, [12] p. il. ([Publication 1059, revised Aug. 1964.]) [Another illustration and text on p. 2-4 of cover.] † ● Item 485 FS 2.2: C 73/7
- 18896 Coordinating community study of environmental health [with one reference; by] Walter C. Kane. [1964.] p. 537-542, 4° [From Public health reports, June 1964, v. 79, no. 6.] † FS 2.7/a: En 8/3
- 18897 Directory of State and territorial health authorities, 1964. [Revised May 1964.] [1964.] v+104 p. il. ([Publication 75 (1964 revision)]; Bureau of State Services (CH), Office of Grants Management.) \* Paper, 35c. ● Item 483-B FS 2.77/2: 964  
L.C. card 24-26996
- 18898 Film reference guide for medicine and allied sciences, 1964; [by] Federal Advisory Council on Medical Training Aids (FACMTA). [1964.] xvi+420 p. 4° (Communicable Disease Center, Atlanta, Ga.; [Air Force, AFP 160-15-1; Army, DA pamphlet 108-2; Navy, NAV MED P5042 1964; Public Health Service PHS 487, rev. 1964; Veterans Administration VA catalog 7].) [Supersedes above issues dated June 1963.] \* Paper, \$2.50. ● Item 508-H FS 2.60/10: 964  
L.C. card 56-60040
- Health information series. ● Item 486 FS 2.50: (nos.)
- 18899 69. High blood pressure; [prepared by Heart Information Center, National Heart Institute]. [Revised 1964.] [1964.] [6] p. il. narrow 8° ([Publication 146.]) [Formerly entitled Hypertension.] \* Paper, \$2.50 per 100; single copy, 5c.
- 18900 73. Leukemia; [prepared by Research Information Branch, National Cancer Institute]. [Revised 1964.] [1964.] 4 p. narrow 8° ([Publication 353.]) \* Paper, \$2.00 per 100; single copy, 5c.
- 18901 113. What about radiation? answers to some frequent questions, strontium 90 from nuclear tests, removal of strontium 90 from milk, diagnostic X-rays, shoe-fitting X-ray machines, television sets, radium watch dials, radioactive dishes. [1964.] [2] p. il. oblong 8°, folded into narrow 8° size. ([Publication 1196.]) \* Paper, \$3.00 per 100; single copy 5c.
- 18902 114. Mental retardation, its biological factors, hope through research; [prepared by Information Office, National Institute of Neurological Diseases and Blindness, National Institutes of Health]. 26+[2] p. il. narrow 8° ([Publication 1152.]) \* Paper, 15c.
- 18903 115. Cancer of lung; [prepared by Research Information Branch, National Cancer Institute, National Institutes of Health]. [1964.] 10 p. il. narrow 8° ([Publication 1173.]) \* Paper, \$5.00 per 100; single copy, 10c.
- 18904 116. Cerebral vascular disease and strokes; [prepared by Heart Information Center, National Heart Institute]. [1964.] 14+[2] p. il. narrow 8° ([Public Health Service publication 513, revised 1964.]) \* Paper, \$10.00 per 100; single copy, 15c.
- Health mobilization series. (Division of Health Mobilization.) ● Item 486-E
- 18905 A-1. Emergency health preparedness, publications catalog. 1964 edition. 1964. v+28 p. ([Publication 1971-A-1.]) \* Paper, 20c. FS 2.302: A-1
- Municipal water facilities, 1963 inventory [cooperative State-Federal report]. ([Publication 775 (revised)]; Division of Water Supply and Pollution Control, Basic Data Branch.) ● Item 492-C FS 2.84/3: 963/v. (nos.)

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- 18906 v. 1. Region 1, Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont. [1964.] ix+74 p. il. 4° \* Paper, 50c.  
L.C. card 64-62618
- 18907 v. 2. Region 2, Delaware, New Jersey, New York, Pennsylvania. [1964.] ix+168 p. il. 4° \* Paper, \$1.00  
L.C. card 64-62618
- 18908 v. 3. Region 3, Dist. of Col., Kentucky, Maryland, North Carolina, Virginia, West Virginia, Puerto Rico, Virgin Islands. [1964.] ix+109 p. il. 4° \* Paper, 65c.  
L.C. card 64-62618
- 18909 v. 4. Region 4, Alabama, Florida, Georgia, Mississippi, South Carolina, Tennessee. [1964.] ix+95 p. il. 4° \* Paper, 60c.  
L.C. card 64-62618
- 18910 v. 5. Region 5, Illinois, Indiana, Michigan, Ohio, Wisconsin. [1964.] ix+141 p. il. 4° \* Paper, \$1.00.  
L.C. card 64-62618
- 18911 v. 6. Region 6, Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota. [1964.] ix+140 p. il. 4° \* Paper, \$1.00.  
L.C. card 64-62618
- 18912 v. 7. Region 7, Arkansas, Louisiana, New Mexico, Oklahoma, Texas. [1964.] ix+111 p. il. 4° \* Paper, 65c.  
L.C. card 64-62618
- 18913 v. 8. Region 8, Colorado, Idaho, Montana, Utah, Wyoming. [1964.] ix+58 p. il. 4° \* Paper, 45c.  
L.C. card 64-62618
- 18914 v. 9. Region 9, Alaska, Arizona, California, Hawaii, Nevada, Oregon, Washington. [1964.] ix+151 p. il. 4° \* Paper, \$1.00.  
L.C. card 64-62618
- 18915 Organization and functions of National Center for Health Statistics. [Revised July 1964.] [1964.] [2] p. il. oblong 8° folded into narrow 8° size. ([Publication 878.]) † ● Item 485 FS 2.2: N 21 c/964-2  
Public health bibliography series. ● Item 481-A FS 2.21: (nos.)
- 18916 44. Cancer in subhuman primates; compiled by Marjorie Luther. 1962 [published 1964]. iii+61 p. ([Publication 1138]; National Institutes of Health Library, Division of Research Services.) \* Paper, 25c.  
L.C. card 64-62598
- 18917 50. Bibliography of medical translations, Jan. 1959-June 1962, general subject index. 1964. [2]+37 p. 4° ([Publication 1212]; National Library of Medicine.) †  
L.C. card 63-61052
- 18918 53. Selected references on rheumatic fever, glomerulonephritis and streptococcal infections, bibliography compiled from English language, 1963; [by Lucille T. Shoop]. [Aug. 1964.] iv+24 p. 4° ([Publication 1060, supp. 2]; Division of Chronic Diseases, Heart Disease Control Program.) †  
L.C. card 63-65488
- 18919 Public Health Service grants for support of air pollution control programs, general information. Aug. 1964. [1]+15 p. 4° † FS 2.2: Ai 7/28
- 18920 Reported tuberculosis data. 1964 edition. [1964.] v+49 p. il. 4° ([Publication 638]; Communicable Disease Center, Tuberculosis Program.) \* Paper, 35c. ● Item 500-D  
L.C. card 55-61131 FS 2.42/3: 964
- 18921 Role of veterinarian in national disaster; prepared by Division of Health Mobilization, under contract with Office of Civil Defense, Department of Army. July 1964. [3]+14 p. 4° (Contract OCD-OS-63-65; subtask 2421D.) † FS 2.2: V 64
- 18922 Sewage and water works construction 1963; [prepared by Kenneth H. Jenkins, Florence G. Simmons]. [1963 edition.] [July 1964.] iv+12 p. 4° ([Publication 758]; Division of Water Supply and Pollution Control.) † ● Item 498-A  
L.C. card 58-61774 FS 2.56/2: 963
- 18923 University curriculums and fellowships in radiological health. [1964.] ix+69 p. il. 4° (Division of Radiological Health.) † ● Item 485  
L.C. card 64-62342 FS 2.2: R 11/9
- Vital and health statistics: Series 10, Data from National Health Survey. (National Center for Health Statistics.) ● Item 500-E  
FS 2.85/2: 10/no. (nos.)

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- 18924 11. Health insurance coverage, United States, July 1962-June 1963, statistics on proportion of population covered by health insurance according to selected demographic characteristics, based on data collected in household interviews July 1962-June 1963; [by Carolanne H. Hoffman]. Aug. 1964. [4]+37 p. il. 4° ([Publication 1000, series 10, no. 11; Division of Health Interview Statistics.]) \* Paper, 35c.
- 18925 12. Bed disability among chronically limited, United States, July 1957-June 1961, statistics on average annual number of days of bed disability for all persons, persons with limitation of activity, and persons with limitation of mobility, due to chronic conditions, by degree of limitation, geographic region, family income, living arrangements, sex, and age, based on data collected in household interviews during period July 1957-June 1961: [prepared by Charles S. Wilder]. Sept. 1964. [4]+62 p. il. 4° ([Publication 1000, series 10, no. 12; Division of Health Interview Statistics.]) \* Paper, 45c.

—Series 11, Data from National Health Survey. (National Center for Health Statistics.) ● Item 500-E

- 18926 6. Heart disease in adults, United States, 1960-62, description of examination and diagnostic procedures with major findings by age, sex, and race; [by Tavia Gordon]. Sept. 1964. [4]+43 p. il. 4° ([Publication 1000, series 11, no. 6; Division of Health Examination Statistics.]) \* Paper, 35c.  
L.C. card 64-62723 FS 2.85/2: 11/no.6
- 18927 Where to write for divorce records. [Revised Aug. 1964.] [1964.] [2]+6 p. 4° ([Publication no. 630C.]) \* Paper, 10c. ● Item 508  
L.C. card 59-60669 FS 2.102: D 64/964-2

## PUBLIC ROADS BUREAU, Commerce Dept. Washington, D.C. 20235

- 18928 Quarter century of financing municipal highways, 1937-61; [prepared by Office of Planning, Highway Statistics Division]. 1964. iv+176 p. il. 4°  
\* Paper, \$1.00. ● Item 265  
L.C. card 64-62506 C 37.2: F 49/4/937-61

## RECLAMATION BUREAU, Interior Dept. Washington, D.C. 20240

- 18929 Bridge and Marble Canyon Dams [proposed] and their relationship to Grand Canyon National Park and Monument. [1964.] [4] p. il. †  
I 27.2: B 76

## RENEGOTIATION BOARD Washington, D.C. 20446

- Renegotiation bulletin. [Issued with perforations.] ● Item 308
- 18930 25A. Concurrent renegotiation. Aug. 5, 1964. 1 p. 4° \* Paper, 5c.  
RnB 1.6/3: 25 A

## RURAL ELECTRIFICATION ADMINISTRATION, Agriculture Dept. Washington, D.C. 20250

- 18931 1963 annual statistical report, rural telephone borrowers [lending program of Rural Electrification Administration, loan, operating and financial statistics of REA Telephone borrowers, year ending Dec. 31, 1963]. [Aug. 1964.] cover title, 230 p. il. 4° (REA bulletin 300-4.) † ● Item 115  
L.C. card 49-38508 A 68.1/3: 963
- 18932 Electric transmission construction contract (labor and material). [1964.] cover title, iii+40+5 p. 76 pl. 4° (REA form S31, Rev. 8-64.) [Includes REA form 805, Specifications and drawings for transmission voltages line construction. Issued with perforations.] \* Paper, \$1.25. ● Item 116  
A 68.2: C 76/12/964

REA bulletin.

- 18933 20-4. General fund levels as related to loan fund advances and accelerated payments. July 30, 1964. 6 p. 4° [Issued with perforations.] †  
A 68.3: 20-4

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ST. LAWRENCE SEAWAY DEVELOPMENT CORPORATION

Massena, N.Y. 13662

- 18934 Saint Lawrence Seaway Development Corporation, annual report for year ended Dec. 31, 1963. [1964.] v+14 p. il. 4° [Also issued as H. doc. 332, 88th Cong., 2d sess. and sent to depositories in that form. See Entry no. 17460.] † Paper, 25c.  
L.C. card 56-61321 Y 3.Sa 2:1/963

SAVINGS BONDS DIVISION, Treasury Dept.

Washington, D.C. 20226

- 18935 Investment advantages of series E savings bonds. [1964.] [6] p. il narrow 8° ([SBD-725-64.]) † T 66.2: In 8/6

SCIENCE AND TECHNOLOGY OFFICE, Executive Office of the President, Washington, D.C. 20506

NOTE.—The Office of Science and Technology was established in the Executive Branch Office of the President by Reorganization plan 2 of 1962, effective June 8, 1962.

- 18936 Appendices to Assessment of large nuclear powered sea water distillation plants, Mar. 1964, report of interagency task group [with list of references]. [1964.] cover title, [2] leaves, vii+478 p. il. 2 pl. 4° \* Paper, \$3.25. ● Item 857-F-1  
L.C. card 64-61027 Pr Ex 8.2: Se 1/app.

SHIP STRUCTURE COMMITTEE

Washington, D.C. 20226

SSC series.

Y 3.Sh 6: SSC-(nos.)

- 18937 163. Investigation of bending moments within midship half length of Mariner model in extreme waves [with list of references]; by Naresh M. Maniar, Stevens Institute of Technology. June 1964. [4]+22 p. il. 4° (1st progress report of project SR-165, Bending moment determination, to Ship Structure Committee, under Department of Navy, Bureau of Ships contract NObs-88263; National Academy of Sciences-National Research Council.) [Text on p. 2 of cover.] † (Limited distribution) Secretary, Ship Structure Committee, Coast Guard Headquarters, Washington, D.C.
- 18938 164. Results from full-scale measurements of midship bending stresses on 2 C4-S-B5 dry-cargo ships operating in North Atlantic service [with list of references]; by D. J. Fritch, F. C. Bailey and N. S. Wise. Sept. 1964. [4]+29 p. il. 4° (4th progress report of Project SR-153, Ship response Statistics to Ship Structure Committee, under Department of Navy, Bureau of Ships contract NObs-88349; National Academy of Sciences, National Research Council.) [Text on p. 2 of cover.] † (Limited distribution), Secretary, Ship Structure Committee, Washington, D.C.
- 18939 [This entry number not used.]

SMALL BUSINESS ADMINISTRATION

Washington, D.C. 20416

- 18940 Economic growth, job creation, through SBA's local development company loans, as of June 30, 1964. [1964.] cover title, iii+35 p. il. 4° †  
● Item 901-B  
L.C. card 64-62664 SBA 1.2: I 78/12
- 18941 Management aids for small manufacturers, annual no. 10; edited by Jean B. MacArthur. 1964. v+82 p. ([Office of Management Development, Publications Division.]) \* Paper, 35c. ● Item 901-E  
L.C. card 55-60429 SBA 1.10/2: 10
- 18942 SBA, what it is, what it does; [prepared and issued by Office of Public Information]. [Sept. 1964.] iv+17+[1] p. il. narrow 8° † ● Item 901-B  
SBA 1.2: Sm 1/964

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Small business bibliography. † ● Item 901-K

- 18943 1. Handicrafts and home businesses; by William B. Logan and George Traicoff, jr. July 1964 revision. [1964.] 12 p. 4°  
L.C. card 64-62671 SBA 1.3:1/4

SMITHSONIAN INSTITUTION  
Washington, D.C. 20560

- 18944 James Means and problem of manflight during period 1882-1920 [with list of literature cited]; by James Howard Means. 1964. xi+143 p. il. 29 pl. ([Publication 4526.]) † Cloth, \$3.00.  
L.C. card 64-54551 SI 1.2: M 46

Smithsonian contributions to astrophysics (Astrophysical Observatory.)  
● Item 909-B

- 18945 v.8, no. 4. Velocity of faint meteors [with list of references]; by Gerald S. Hawkins, Bertil-Anders Lindblad, and Richard B. Southworth. 1964. [2]+133-139 p. il. 4° †  
L.C. card 64-62831 SI 1.12/2:8/4

SOCIAL SECURITY ADMINISTRATION, Health, Education, and  
Welfare Dept., Washington, D.C. 20201

- 18946 America's centenarians, reports of interviews with social security beneficiaries who have lived to 100. Dec. 1963 [published 1964.] † ● Item 516

L.C. card HEW 64-59

FS 3.2: C 33/v.1-4

- v. 1. [286] p. il. 4°  
v. 2. [292] p. il. 4°  
v. 3. [262] p. il. 4°  
v. 4. [260] p. il. 4°

OASI (series). ● Item 518-A

- 18947 93. Your social security earnings record. [Aug. 1964.] 24 p. il. oblong 48°  
\* Paper, \$5.00 per 100; single copy, 10c.  
L.C. card HEW 60-121 FS 3.35: 93/8

- 18948 Social security bulletin, annual statistical supplement, 1962. [1964.] cover title, 116 p. 4° [Text on p. 2 of cover.] \* Paper, 60c. ● Item 523  
L.C. card 40-29327 FA 3.3/3: 962

- 18949 Social security programs in United States. [1964.] [5]+61 p. il. 4° (Division of Research and Statistics.) † ● Item 516  
L.C. card HEW 64-116 FS 3.2: So 13/21

SOIL CONSERVATION SERVICE, Agriculture Dept.

Washington, D.C. 20250

- 18950 Federal-State-private cooperative summary of snow survey and soil moisture measurements for Montana, including pertinent measurements in Alberta, Saskatchewan, British Columbia, Idaho and Wyoming, 1922-64 report; prepared by Phillip E. Farnes and Stanley E. Cook. July 1964. [6]+vii+217 p. il. 4° (Snow Survey and Water Supply Forecasting Section, Bozeman, Mont.) [Prepared in cooperation with Montana Agricultural Experiment Station. Text on p. 3 of cover.] †  
L.C. card 64-62810 A 57.2: Sn 6/13/922-64

- 18951 Soil conservation districts, status of organization, by States, approximate acreage, and farms is organized districts. July 1, 1964. [3]+71 p. il. 4° [Issued with perforations.] †  
L.C. card 50-61311 A 57.32: 964

Soil survey series 1953. ● Item 102 (Rev. 1957)

- 18952 11. Moniteau County, Mo.; [by C. L. Scrivner and Joe A. Frieze]. May 1964. cover title, i+42 p. 45 p. il. 45 pl. and maps, 4° [Prepared in cooperation with Missouri Agricultural Experiment Station. Text on p. 2 of cover.] \* Paper, \$2.25.  
L.C. card Agr 64-409 A 57.38: 953/11

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## Soil survey series 1958. ● Item 102 (Rev. 1957)

- 18953 30. Minnehaha County, S. Dak. [with list of literature cited; by Lorne M. Nestrud and others]. June 1964. cover title, 1+102 p. il. 53 p. of pl. and maps. 4° [Prepared in cooperation with South Dakota Agricultural Experiment Station. Text on p. 2 of cover. One map is colored.] \* Paper, \$3.00. L.C. card Agr 64-408 A 57.38: 958/30

## Soil survey series 1960. ● Item 103 (Rev. 1957)

- 18954 14. Iredell County, N.C. [with list of literature cited; by Joel W. Cawthorn and V. S. Jenkins]. June 1964. cover title, 1+96 p. il. 1 tab. 67 p. pl. and maps 4° [Prepared in cooperation with North Carolina Agricultural Experiment Station. Text on p. 2 of cover. One map is colored. Table is separate.] \* Paper, \$3.75. L.C. card Agr 64-407 A 57.38: 960/14
- 18955 Summary of snow survey measurements for Arizona (Salt, Verde, Gila and part of lower Colorado River basin) 1938-64, report; prepared by Richard W.ENZ, Mary Weller. Oct. 1964. [9]+50 p. il. 4° [Data included were obtained by United States Department of Agriculture, Soil Conservation Service, Salt River Valley Water Users Association and Arizona Agricultural Experiment Station in cooperation with Federal, State and private organizations.] † L.C. card 64-62706 A 57.2: Sn 6/3/938-64

## STATE DEPARTMENT

Washington, D.C. 20520

### Geographic bulletin. (Geographer, Bureau of Intelligence and Research, Office of Research in Economics and Science.) ● Item 876-A

- 18956 1. Profiles of newly independent states. [Revised July 1964.] [964.] [4]+26+[1] p. il. 4° ([Publication 7703; Office of Media Services, Bureau of Public Affairs.]) [Text on p. 2 of cover.] \* Paper, 25c. L.C. card 64-62716 S 1.119/2: 1/2

### Inter-American series. ● Item 877

- 18957 89. Alliance for progress. June 1964. 6+[1] p. 4° ([Publication 7697; Office of Media Services], Bureau of Public Affairs; Foreign affairs outline no. 7.) [Based on address by Thomas C. Mann, Assistant Secretary of State for Inter-American Affairs, before Washington Institute of Foreign Affairs, Washington, D.C., May 13, 1964.] \* Paper, 5c. L.C. card 64-62702 S 1.26: 89

### International boundary study. ([Geographer, Office of Research in Economics and Science, Bureau of Intelligence and Research.]) †

- 18958 35. Laos-Viet-Nam boundary. June 29, 1964. cover title, [1]+7 p. map, 4° S 1.119/3: 35

### International organization and conference series.

- 18959 51. U.S. participation in UN, report by the President to Congress, 1963. [Aug. 1964.] xvii+433 p. il. ([Publication 7675.1]) [Also issued as H. doc. 188, 88th Cong., 2d sess.] \* Paper, \$1.25. ● Item 882-B L.C. card 47-32785 S 1.70: 51

- 18960 Mind your world, citizen's guide to international understanding. [July 1964.] vi+40 p. il. 8° (U.S. National Commission for UNESCO.) [Text on p. 2-4 of cover. Includes list of some helpful materials. \* Paper, 30c. ● Item 894

L.C. card 64-62662

S 5.48: W 89/5

### Near and Middle Eastern series. ● Item 883

- 18961 74. United States and Middle East. [Aug. 1964.] cover title, 8 p. il. ([Publication 7706; Office of Media Services, Bureau of Public Affairs.]) [Text on p. 2-3 of cover.] \* Paper, 10c. L.C. card 64-62660 S 1.86: 74

Treaties and other international acts series. \* Paper, \$10.00 a yr. (approximately 150 issues), \$6.00 additional for foreign mailing; single copies vary in price. ● Item 899 S 9.10: (nos.)

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- 18962 5592. Trade, interim agreement between United States and Iceland, revising Schedule I to agreement of Aug. 27, 1943, effected by exchange of notes dated Reykjavik May 29 and June 2, 1964; [entered into force June 2, 1964]. [1964.] [2]+5 p. \* Paper, 5c.  
L.C. card 64-62329.
- 18963 5598. Trade in cotton textiles, agreement between United States and Spain, amending agreement of July 16, 1963, effected by exchange of notes dated Washington June 15 and 17, 1964; [entered into force June 17, 1964]. [1964.] [2]+4 p. \* Paper, 5c.  
L.C. card 64-62455
- 18964 5600. Agricultural commodities, agreement between United States and Iran, signed Tehran Nov. 17, 1963; [entered into force Nov. 17, 1963]; with exchange of notes dated Tehran Nov. 18, 1963, and June 11, 1964. [1964.] [2]+10 p. \* Paper, 10c.  
L.C. card 64-62498
- 18965 5601. Interchange of patent rights and technical information for defense purposes, filing classified patent applications, agreement between United States and Federal Republic of Germany, amending agreement of Mar. 9 and May 23, 1959, effected by exchange of notes dated Bonn and Bonn/Bad Godesberg Jan. 14 and May 28, 1964; [entered into force May 28, 1964]. [1964.] [2]+3 p. [German and English.] \* Paper, 5c.  
L.C. card 64-62499
- 18966 5602. Consular convention between United States and Japan, signed Tokyo Mar. 22, 1963, and protocol, [proclaimed by President of United States July 10, 1964; entered into force Aug. 1, 1964]. [1964.] [2]+118 p. [English and Japanese.] \* Paper, 50c.  
L.C. card 64-62595
- 18967 5603. Partial revision of radio regulations, Geneva, 1959, and additional protocol between United States and other Governments, signed Geneva Nov. 8, 1963, [proclaimed by President of United States, July 7, 1964; date of entry into force with respect to United States Jan. 1, 1965.] [1964.] [2]+467 p. [English, French, and Spanish.] \* Paper, \$1.25.  
L.C. card 64-62680
- 18968 5604. Weather stations, continuation of cooperative meteorological program, agreement between United States and Colombia, effected by exchange of notes signed Bogota Apr. 27, and May 13, 1964; [entered into force May 13, 1964]. [1964.] [2]+7 p. [English and Spanish.] \* Paper, 10c.  
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- 18969 5605. Aviation transport services, agreement between United States and New Zealand signed Wellington June 24, 1964; [entered into force June 24, 1964]. [1964.] [2]+9 p. \* Paper, 10c.  
L.C. card 64-62596
- 18970 5607. Mutual defense assistance, disposition of equipment and materials, agreement between United States and China, amending agreement of Apr. 3, 1956, effected by exchange of notes signed Taipei June 3, 1964; [entered into force June 3, 1964]. [1964.] [2]+7 p. [English and Chinese.] \* Paper, 10c.  
L.C. card 64-62591
- 18971 5608. Saint Lawrence Seaway, tariff of tolls, agreement between United States and Canada, amending agreement of Mar. 9, 1959, effected by exchange of notes dated Ottawa June 30, 1964; [entered into force July 1, 1964]. [1964.] [2]+3 p. \* Paper, 5c.  
L.C. card 64-62597
- 18972 5609. Technical cooperation, program in British Guiana, agreement between United States and United Kingdom of Great Britain and Northern Ireland, extending agreement of June 29 and July 12, 1954, as extended, effected by exchange of notes signed Washington June 22 and 29, 1964; [entered into force June 29, 1964]. [1964.] [2]+3 p. \* Paper, 5c.  
L.C. card 64-62592
- 18973 5610. Agricultural commodities, agreement between United States and Israel, amending agreement of Dec. 6, 1962, as amended, effected by exchange of notes signed Washington July 6, 1964; [entered into force July 6, 1964]. [1964.] [2]+2 p. \* Paper, 5c.  
L.C. card 64-62593
- 18974 5611. Mutual defense assistance, cash contribution by Japan, arrangement between United States and Japan, relating to agreement of Mar. 8, 1954, effected by exchange of notes signed Tokyo July 9, 1964; [entered into force July 9, 1964]. [1964.] [2]+5 p. [Japanese and English.] \* Paper, 5c.  
L.C. card 64-62594
- 18975 5612. Maritime matters, use of Danish ports and waters by N.S. Savannah, agreement between United States and Denmark, signed Copenhagen July 2, 1964; [entered into force July 2, 1964]. [1964.] [2]+4 p. \* Paper, 5c.  
L.C. card 64-62681
- 18976 5613. Maritime matters, use of Swedish ports and waters by N.S. Savannah, agreement between United States and Sweden, effected by exchange of notes signed Stockholm July 6, 1964; [entered into force July 6, 1964]. [1964.] [2]+5 p. \* Paper, 5c.  
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- 18977 5614. Petroleum, agreement, with agreed minutes, between United States and Republic of Korea, signed Seoul May 12, 1964; [entered into force Sept. 3, 1964]. [1964.] [2]+9 p. \* Paper, 10c.  
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- 18978 5615. Peace Corps program, agreement between United States and Panama, effected by exchange of notes signed Panama Oct. 30, 1963; [entered into force July 6, 1964]. [1964.] [2]+7 p. [English and Spanish.] \* Paper, 10c.  
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- 18979 5616. Agricultural commodities, sales under title 4, agreement between United States and Chile, amending agreement of Aug. 7, 1962, as amended, effected by exchange of notes signed Santiago June 30, 1964; [entered into force June 30, 1964]; with related notes. [1964.] [2]+9 p. [English and Spanish.] \* Paper, 10c.  
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- 18980 5617. Agricultural commodities, agreement between United States and United Arab Republic, amending agreement of Oct. 8, 1962, as amended, effected by exchange of notes, signed Cairo June 30, 1964; [entered into force June 30, 1964]. [1964.] [2]+2 p. \* Paper, 5c.  
L.C. card 64-62686
- 18981 5618. Trade in cotton textiles, agreement between United States and Greece, effected by exchange of notes signed Washington July 17, 1964; [entered into force July 17, 1964]. [1964.] [2]+6 p. \* Paper, 5c.  
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- 18982 5619. Trade in cotton textiles, agreement between United States and Turkey, effected by exchange of notes signed Washington July 17, 1964; [entered into force July 17, 1964]; with related notes. [1964.] [2]+8 p. \* Paper, 10c.  
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- 18983 5620. Agricultural commodities, agreement between United States and Tunisia, amending agreement of Apr. 7, 1964, effected by exchange of notes signed Tunis July 7, 1964; [entered into force July 7, 1964]. [1964.] [2]+3 p. 4° [English and French.] \* Paper, 5c.  
L.C. card 64-62689
- 18984 5621. Atomic energy, application of Agency safeguards to certain United States reactor facilities, agreement between United States and International Atomic Energy Agency, signed Vienna June 15, 1964; [entered into force Aug. 1, 1964]. [1964.] [2]+7 p. \* Paper, 10c.  
L.C. card 64-62690
- 18985 5622. Atomic energy, cooperation for civil uses, agreement between United States and Viet-Nam, amending agreement of Apr. 22, 1959; signed Washington June 9, 1964; [entered into force Aug. 10, 1964]. [1964.] [2]+4 p. \* Paper, 5c.  
L.C. card 64-62691
- 18986 5623. Atomic energy, cooperation for civil uses, agreement between United States and China, amending agreement of July 18, 1955, as amended, signed Washington June 8, 1964; [entered into force Aug. 6, 1964]. [1964.] [2]+4 p. \* Paper, 5c.  
L.C. card 64-62692

## STATISTICAL REPORTING SERVICE, Agriculture Dept. Washington, D.C. 20250

- 18987 Capacity of refrigerated warehouses in United States, Oct. 1, 1963; [prepared by Julius A. Borsa, M. R. Banks, and W. D. Bormuth]. Aug. 1964. [2]+22 p. il. 4° (Co St 2 (64); Crop Reporting Board.) †  
● Item 24-G A 92.21/3: 963
- 18988 Irish potatoes, utilization of 1963 crop with comparisons. Sept. 9, 1964. 3 p. 4° (Pot 1-3 (9-64); Crop Reporting Board. † A 92.11/5: 963
- 18989 Meat meal and tankage production, semi-annual report. July 30, 1964. 1 p. 4° (MtAn 3 (7-64); Crop Reporting Board.) † A 92.17/2: 964-2
- 18990 Wool, shorn wool production 1964. July 27, 1964. [2] p. 4° (Mt An 5-3 (7-64); Crop Reporting Board.) † A 92.29: 964

## TARIFF COMMISSION Washington, D.C. 20436

- 18991 Carbon steel bars and shapes from Canada, determination of injury. Sept. 1, 1964. 18 p. 4° (TC publication 135; AA1921-39.) †  
TC 1.31/2: St 3/2

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- 18992 Operation of trade agreements program, 14th report, July 1960-June 1962, prepared in conformity with Sec. 402(b) of Trade expansion act of 1962. 1964. vii+99 p. (TC publication 120.) \* Paper, 35c. ● Item 980-A L.C. card 49-45514 TC 1.14/3: 960-62
- 18993 Supplement 5 to Tariff schedules of United States annotated (1963); [Sept. 1964]. 1964. [20] p. 4° (TC publication 103.) [Issued in loose-leaf form.] \* Paper, \$5.00 (including supplementary service for indefinite period); \$1.25 additional for foreign mailing. ● Item 982-B L.C. card 63-62174 TC 1.35/2: 963/supp.5
- 18994 Tariff Commission reports to the President on petition for adjustment assistance by Danaho Refining Co. Aug. 21, 1964. 7 p. 4° (TC publication 134; TEA-F-3.) † TC 1.2: D 19
- 18995 Umbrellas and parts of umbrellas (except handles), report to the President on investigation no. TEA-I-6 under sec. 301(b)(1) of Trade expansion act of 1962. Sept. 1964. cover title, [2]+36 leaves, 4° (TC publication 136; [TC 29118].) † L.C. card 64-62642 TC 1.2: Um 1/2
- 18996 Wilton, brussels, velvet, and tapestry carpets and rugs, report to the President (no. TEA-IR-5-64), under sec. 351(d)(1) of Trade Expansion act of 1962. Sept. 1964. cover title, [1]+15 leaves, 4° (TC publication 137; [TC 28827].) † L.C. card 62-60302 TC 1.2: C 22/964

## TECHNICAL SERVICES OFFICE, Commerce Dept. Washington, D.C. 20235

- 18997 Basic list of periodicals translated cover-to-cover (published in Technical translations, v. 12, no. 1). July 1964. [1]+16 p. 4° † L.C. card 63-60969 C 41.23/4: P 41/964-2

## TENNESSEE VALLEY AUTHORITY Washington, D.C. 20444

- 18998 12-year service tests on treated posts [with list of literature cited]. [1964.] 6 p. il. 4° ([Division of Forestry Development; F64Fr8.]) † Y 3.T 25: 27 P 84/4

## TRANSPORTATION CORPS (Army), Defense Dept. Washington, D.C. 20310

TRECOM technical reports. (Army Transportation Research Command, Fort Eustis, Va.) D 117.8/2: (nos.)

- 18999 63-75. Investigation of elastic coupling phenomena of high speed rigid rotor systems [with list of references]; prepared by Lockheed-California Company, Burbank, Calif. June 1964. [1]+ix+1-124A, 125-278+[4] p. il. 4° (Task 1D121401A4302 (formerly task 9R38-13-014-02): contract DA 44-177-TC-828; Lockheed report 1703.) Φ (Price upon application.)
- 19000 64-31. Imperfections, main contributor to scatter in experimental values of buckling load [with list of references]; prepared by [W. H. Horton and S. C. Durham], Department of Aeronautics and Astronautics, Stanford University, Stanford, Calif. May 1964. [1]+iv+27+[4] p. il. 4° (Task 1D121401A14176, contract DA 44-177-AMC-115(T).) Φ (Price upon application.)
- 19001 64-36. Engineering survey of aircraft structural failures caused by corrosion, fatigue, and abrasion, final report; prepared by University of Oklahoma Research Institute, Norman, Okla. July 1964. [1]+v+30+[4] p. 4° (Task 1D121401A14203, contract DA 44-177-AMC-98(T).) Φ (Price upon application.)

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## TREASURY DEPARTMENT

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### Department circulars. †

T 1.4/2: (nos.)

- 19002 230. [Rules governing practice of attorneys and agents before Internal Revenue Service.] Revised [edition]. Aug. 1964. [1]+16 p. [Title 31, Code of Federal regulations, pt. 10.] ● Item 924
- 19003 930. Regulations governing foreign exchange operations, revised, amdt. 1; Aug. 3, 1944. [1964.] [4] p. 4° (Fiscal Service, Bureau of Accounts.)
- 19004 965, rev. Relating to year-end status and closing of appropriation and fund accounts; July 22, 1959. 1959. [1]+5 p.+ [2] leaves, 4° (Fiscal Service, Bureau of Accounts.)
- 19005 965, rev. Amendment to instructions under Treasury Department circular 965, revised July 22, 1959, relating to year-end status and closing of appropriation and fund accounts; May 5, 1960. [1960.] 4 p.+ [2] leaves, 4° (Fiscal Service.)
- 19006 965, rev. 2d amendment to instructions under Treasury Department circular 965, revised July 22, 1959, relating to year-end status and closing of appropriation and fund accounts; Aug. 7, 1961. [1961.] 2+1 p. 4° (Fiscal Service.)
- 19007 965, rev. Procedures memorandum 1, Reports on year-end status and closing of appropriation and fund accounts; Aug. 7, 1964. 1964. 7+ [2] leaves, 4° (Fiscal Service, Bureau of Accounts.)
- 19008 Remarks by Douglas Dillon, Secretary of Treasury, before National Industrial Conference Board, New York, N.Y., Sept. 17, 1964. [1964.] 8 p. 4° † T 1.31: D 58/65
- 19009 Remarks of Douglas Dillon, Secretary of Treasury, before annual meeting of International Monetary Fund, Tokyo, Japan, Sept. 8, 1964. [1964.] 8 p. 4° (D-1338). † T 1.31: D 58/64

## UNITED STATES INFORMATION AGENCY

Washington, D.C. 20547

- 19010 English teaching forum, facts and ideas for teacher of English as foreign language, v. 2, no. 2. 1964. 24 p. il. 4° (Information Center Service.)  
\* Paper, 20c. ● Item 672-D IA 1.17: 2/2

## VOCATIONAL REHABILITATION ADMINISTRATION, Health,

Education, and Welfare Dept.

Washington, D.C. 20201

- 19011 Psychiatric index for interdisciplinary research, guide to literature 1950-61; edited by Richard A. Schermerhorn. May 1964. xvii+1249 p. 4° (Division of Research Grants and Demonstrations.) [Preparation of this publication was supported, in part, by research grant (no. 1186) to Western Reserve University from Vocational Rehabilitation Administration.] \* Paper, \$6.50. ● Item 528-A FS 13.218: P 95/950-61
- 19012 So you are going to supervise mentally retarded employee, what are they like, what assets will they bring to the job, what problems will they bring to it, how do I get ready for my new worker, how do I start him on the job? [1964.] [16] p. oblong 4S° † ● Item 529 FS 13.202: M 52/5

## WAGE AND HOUR AND PUBLIC CONTRACTS DIVISIONS,

Labor Dept.

Washington, D.C. 20210

Interpretative bulletins, title 29 of Code of Federal regulations. L 22.10: (nos.)

- 19013 pt. 779. Fair labor standards act as applied to retailers of goods or services. [1964.] [11]+93 p. 4° (Publication 1041, reprinted June 1964.) [Issued with perforations. Code, up to and including Jan. 1, 1964.] \* Paper, 45c. ● Item 778 L.C. card 64-62747

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- 19014 pt. 782. Exemption from maximum hours for certain employees of motor carriers, under Fair labor standards act of 1938, as amended. Reprinted June 1964. [1]+14 p. 4° (WHPC publication 1044.) [Text of Code, up to and including Jan. 1, 1964.] † ● Item 778
- 19015 pt. 791. Joint employment relationship under Fair labor standards act of 1938, as amended. Reprinted Aug. 1964. [1]+3 p. 4° (WHPC publication 1057.) [Text of Code, up to and including Jan. 1, 1964.] †

## WEATHER BUREAU, Commerce Dept. Washington, D.C. 20235

Decennial census of United States climate: Climatic summary of United States, supplement for 1951-60, Climatography of United States no. 86-(series). ● Item 273-B C 30.71/8: (nos.)

- 19016 5. Colorado. 1964. 86 p. il. oblong 8° \* Paper, 45c.
- 19017 6. Florida. 1964. 61 p. il. oblong 8° \* Paper, 35c.
- 19018 7. Georgia. 1964. 69 p. il. oblong 8° \* Paper, 35c.
- 19019 8. Idaho. 1964. 66 p. il. oblong 8° \* Paper, 35c.
- 19020 9. Illinois. 1964. 76 p. il. oblong 8° \* Paper, 40c.
- 19021 10. Indiana. 1964. 63 p. il. oblong 8° \* Paper, 35c.
- 19022 11. Iowa. 1964. 84 p. il. oblong 8° \* Paper, 45c.
- 19023 12. Kansas. 1964. 94 p. il. oblong 8° \* Paper, 45c.
- 19024 13. Kentucky. 1964. 57 p. il. oblong 8° \* Paper, 35c.
- 19025 14. Louisiana. 1964. 61 p. il. oblong 8° \* Paper, 35c.

### Key to meteorological records documentation.

- 19026 5.36. Catalogue of meteorological satellite data, TIROS VI television cloud photography [with list of references]. 1964 ii+38+[386] p. il. 4° \* Paper, \$2.00. ● Item 275-C C 30.66/2: 5.36  
L.C. card 64-62715

### Technical paper. ● Item 281

- 19027 49. Two- to ten-day precipitation for return periods of 2 to 100 years in contiguous United States [with list of references]; prepared by John F. Miller. 1964. [2]+29 p. il. oblong 8° (Cooperative Studies Section, Office of Hydrology.) [Prepared for Engineering Division, Soil Conservation Service, Department of Agriculture.] \* Paper, \$1.00. C 30.28: 49

## WELFARE ADMINISTRATION, Health, Education, and Welfare Dept. Washington, D.C. 20201

- 19028 Public welfare's role in war on poverty, [address] by Ellen Winston, Commissioner of Welfare, Department of Health, Education, and Welfare, to be delivered before Southeastern Regional Conference, American Public Welfare Association, Atlanta, Ga., Aug. 26, 1964. [1964.] 12 leaves, 4° † FS 14.11: W 73/10
- 19029 Social welfare in country development; by Ellen Winston, Commissioner of Welfare, Department of Health, Education, and Welfare [to be delivered at International Conference of Social Work Special Meeting, Athens, Greece, Sept. 14, 1964.] [1964.] 12 p. 4° † FS 14.11: W 73/11

## WOMEN'S BUREAU, Labor Dept. Washington, D.C. 20210

### Bulletins. ● Item 781

L 13.3: (nos.)

- 19030 157-3. Addendum to Legal status of women in United States: Report for Arkansas as of Jan. 1, 1959. Revised May 1, 1964. [1964.] 5 p. †
- 19031 157-22 (rev.). Legal status of women in United States: Report from Minnesota as of June 1, 1964; [prepared by Kermit E. Wheeler]. [1964.] iii+15 p. [Includes list of sources.] \* Paper, 10c. L.C. card L 63-62
- 19032 Divorce laws as of July 1, 1964. [1964.] 2 leaves, oblong large 8° † L 13.2: D 64
- 19033 Labor laws affecting women, capsule summary: Illinois, Aug. 1, 1964. [1964.] 7 p. 4° (WB-65-37.) † L 13.14: Il 6/964
- 19034 — Maine. July 1964. 7 p. 4° ([WB 65-40].) † L 13.14: M 28/964

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- 19036 Minimum wage coverage of domestic workers, present status. May 28, 1964. 2 leaves, 4° ([WB 64-330.]) † L 13.2: D 71/2
- 19037 State laws governing natural guardianship and support of minor children, Jan. 1, 1964. [1964.] 4 leaves, 4° ([WB-65-46.]) † L 13.2: G 93
- 19038 Women private-household workers, fact sheet. [Aug. 1964.] 5 p. 4° ([WB-65-43.]) † L 13.2: H 81/10/964-2
- 19039 Women workers in District of Columbia, 1960. [1964.] 14 leaves, 4° ([WB-65-30.]) † L 13.22: D 63/960  
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- 19040 Women workers in Kentucky, 1960. [1964.] 14 leaves, 4° ([WB-65-29.]) † L 13.22: K 41/960  
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MONTHLY CATALOG, OCTOBER 1964

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35

# MONTHLY CATALOG

UNITED STATES

GOVERNMENT PUBLICATIONS

NOVEMBER 1964

THE LIBRARY OF THE

DEC 11 1964

UNIVERSITY OF CALIFORNIA

Entries 19043-20893

## SPECIAL NOTICE

Beginning with the September 1964 issue of the Monthly Catalog an explanation of the symbols used to indicate the sizes of publications will be found on the inside of the front cover. Also addresses with ZIP code numbers have been added for departments and agencies listed.

We hope this information will be of value to users of our Catalog.

CARPER W. BUCKLEY  
Superintendent of Documents

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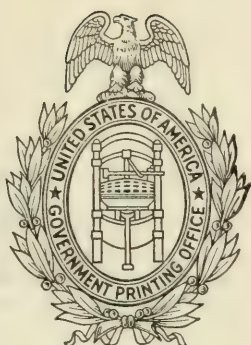
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| large 4°----- | over 12 inches high and width more than $\frac{3}{4}$ of height                              |
| small 4°----- | under 6 inches high and width more than $\frac{3}{4}$ of height                              |
| 8°-----       | 8-10 inches in height (size not given in entry except where publication is narrow or oblong) |
| large 8°----- | 10-12 inches in height   |
| 12°-----      | 7-8 inches in height   |
| 16°-----      | 6-7 inches in height   |
| 24°-----      | 5-6 inches in height   |
| 32°-----      | 4-5 inches in height   |
| 48°-----      | up to 4 inches high  |
| f°-----       | above 12 inches in height  |
| narrow-----   | width less than $\frac{3}{5}$ of height  |
| oblong-----   | width more than height   |

# **MONTHLY CATALOG**



**OF UNITED STATES  
GOVERNMENT PUBLICATIONS**

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**NOVEMBER 1964**

**Number 838**

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**Entries 19043-20893**

**Issued by the SUPERINTENDENT OF DOCUMENTS**

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**UNITED STATES GOVERNMENT PRINTING OFFICE, WASHINGTON, D.C., 20402 : 1964**



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- Application of glass fiber laminates in aircraft.** (Flight Standards Service, AC 20-21.) 35c. ● FAA 5.8/2: G 46
- Ascites tumors.** (National Institutes of Health, National Cancer Institute monograph 16.) \$3.25. ● FS 2.22/18: 16
- Care of your teeth and prevention of dental disease.** [Revised edition.] (Medicine and Surgery Bureau, NAVMED P-5039.) 15c. ● D 206.6/3: T 22
- Chemical control of brush and trees.** (Agriculture Department, Farmers bulletin 2158, Revised.) 15c. ● A 1.9: 2158/2
- Chestnut blight and resistant chestnuts.** (Agriculture Department, Farmers bulletin 2068, Revised.) 15c. ● A 1.9: 2068/3
- Common poisonous plants of New England.** (Public Health Service, Publication 1220.) 35c. ● FS 2.6/2: P 75
- Employer expenditures for selected supplementary remuneration practices in finance, insurance, and real estate industries, 1961.** (Labor Statistics Bureau, Bulletin 1419.) 45c. ● L 2.3: 1419
- Equipment for cooling your home.** (Agriculture Department, Home and garden bulletin 100.) 5c. ● A 1.77: 100
- Federal Power Commission reports, opinions, and orders, vol. 24, July 1-Dec. 31, 1960.** \$4.25. ● FP 1.20: 24
- First facts about drugs.** [Revised 1964.] (Food and Drug Administration, Publication 21.) 15c. ● FS 13.111: 21/2
- Giant upper cretaceous oysters from the Gulf Coast and Caribbean.** (Geological Survey, Professional paper 483-H.) 40c. ● I 19.16: 483-H
- Grasshoppers, their habits and damage.** (Agriculture Department, Agriculture information bulletin 287.) 15c. ● A 1.75: 287
- Grants for research and demonstrations in social welfare.** (Welfare Administration.) 15c. ● FS 14.2: G 76
- Higher education salaries 1962-63.** (Education Office, OE-53015-63, Circular 712.) 50c. ● FS 5.253: 53015-63
- Insects and related pests of house plants, how to control them.** (Agriculture Department, Home and garden bulletin 67, Revised.) 10c. ● A 1.77: 67/3
- Internal revenue bulletin, cumulative bulletin 1964-1, Jan. 1 through June 30, 1964, 2 parts.** (Internal Revenue Service.) pt. 1, \$3.25, pt. 2, \$3.50. ● T 22.25: 964/1/pt.1,2
- Limnological aspects of recreational lakes.** (Public Health Service.) \$1.25. ● FS 2.2: L 62
- Metallographic characterization of NBS spectrometric low-alloy steel standards.** (National Bureau of Standards, Miscellaneous publication 260-3.) 20c. ● C 13.10: 260-3
- On growing older.** (President's Council on Aging.) 50c. ● Pr 35.8: Ag 4/01 1/2
- Patents and inventions, information aid for inventors.** [Revised 1964.] (Patent Office.) 15c. ● C 21.2: P 27/10/964
- Planning bathrooms for today's homes.** (Agriculture Department, Home and garden bulletin 99.) 15c. ● A 1.77: 99
- Questions and answers, Vietnam, struggle for freedom.** (State Department, Publication 7724, Far Eastern series 127.) 25c. ● S 1.38: 127

- Research in community health.** (Public Health Service, Publication 1225.) 40c. ● FS 2.2: C 73/8
- Research on crystal growth and characterization at National Bureau of Standards during period January to June 1964.** (National Bureau of Standards, Technical note 251.) 45c. ● C 13.46: 251
- Selected welding techniques, part II.** (National Aeronautics and Space Administration, NASA SP-5009.) 30c. ● NAS 1.21: 5009
- Serpentine-group minerals.** (Geological Survey, Professional paper 384-A.) 65c. ● I 19.16: 384-A
- Skiing in national forests, America's playground.** (Agriculture Department, Program aid, PA-525, Revised.) 15c. ● A 1.68: 525/3
- Smoking and cancer, related to smoking and health, report of Advisory Committee to Surgeon General of Public Health Service.** (National Institutes of Health, Public Health Service publication 1103-C.) \$2.50 per 100, single copy 5c. ● FS 2.22: Sm 7/3
- Statistics for interstate natural gas pipeline companies, 1963.** (Federal Power Commission, FPC S-165.) 75c. ● FP 1.21: 165
- Tomatoes on your table.** (Agriculture Department, Agriculture leaflet 278, Revised.) 10c. ● A 1.35: 278/5
- Training the hard-core unemployed, demonstration research project at Virginia State College.** (Education Office, OE-13027, Cooperative research monograph 13.) 45c. ● FS 5.213: 13027
- Water supply of El Morro National Monument, New Mexico.** (Geological Survey, Water supply paper 1766.) 25c. ● I 19.13: 1766
- What you need to know about social security disability benefits.** (Social Security Administration, OASI-29a, Revised.) 15c. ● FS 3.35: 29a/5
- Your Federal income tax for individuals.** [1965 edition.] (Internal Revenue Service, Publication 17.) 50c. ● T 22.44: 965



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## Abbreviations

|                   |                                       |                  |                               |
|-------------------|---------------------------------------|------------------|-------------------------------|
| add-----          | addition, addendum, addenda.          | n. d.-----       | no date.                      |
| amdt., amdts----- | amendment, amendments.                | n. p.-----       | no place.                     |
| app-----          | appendix, appendixes.                 | no., nos-----    | number, numbers.              |
| bk., bks-----     | book, books.                          | p-----           | page, pages.                  |
| chap-----         | chapter, chapters.                    | p. of pl-----    | pages of plates.              |
| Cong-----         | Congress.                             | par., pars-----  | paragraph, paragraphs.        |
| Dept-----         | Department.                           | pl-----          | plate, plates.                |
| doc-----          | document.                             | por-----         | portrait, portraits.          |
| facsim-----       | facsimile, facsimiles.                | pt., pts-----    | part, parts.                  |
| fy-----           | fiscal year.                          | rp-----          | report.                       |
| G.H.A-----        | Greenwich hour angle.                 | S-----           | Senate, Senate bill.          |
| H-----            | House.                                | S. Con. Res----- | Senate concurrent resolution. |
| H. Con. Res-----  | House concurrent resolution.          | S. doc-----      | Senate document.              |
| H. doc-----       | House document.                       | S. ex. doc-----  | Senate executive document.    |
| H. ex. doc-----   | House executive document.             | S. ex. rp-----   | Senate executive report.      |
| H. J. Res-----    | House joint resolution.               | S. J. Res-----   | Senate joint resolution.      |
| H.R-----          | House of Representatives, House bill. | S. Res-----      | Senate resolution.            |
| H. Res-----       | House resolution.                     | S. rp-----       | Senate report.                |
| H. rp-----        | House report.                         | sec-----         | section, sections.            |
| il-----           | illustration, illustrations.          | sess-----        | session, sessions.            |
| in-----           | inch, inches.                         | Stat. L-----     | Statutes at large.            |
| lat-----          | latitude.                             | supp-----        | supplement.                   |
| long-----         | longitude.                            | tab-----         | table, tables.                |
| m-----            | mile.                                 | Treas-----       | Treasury.                     |
|                   |                                       | v-----           | volume, volumes.              |
|                   |                                       | vs., v-----      | versus.                       |

Common abbreviations for the names of States, months, etc., are also used.

An explanation of the symbols used to designate sizes of publications is given on the inside of the front cover.

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# New Classification Numbers

|                            |  |
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| C 3.62/5 : date-----       | Census Bureau.<br>Congressional district atlas.<br>NOTE.—See, for earlier class, C 3.62/2 : C 76/2.  |
| C 3.226/a : CT-----        | Business cycle developments (separates).   |
| C 3.232 : Reserved         |  |
| C 3.233 : Reserved         |  |
| C 3.233/2 : nos-----       | Census of transportation, advance and/or preliminary reports.  |
| C 4.12/4 : CT-----         | Coast and Geodetic Survey.<br>Handbooks, manuals, guides.  |
| CS 1.65/2 : date-----      | Civil Service Commission.<br>Directory of ADP training services and sources of information.<br>NOTE.—Continuation of the service inaugurated in 1960 by the Bureau of the Budget with its publication of directory of orientation and training courses in automatic data processing. |
| FS 2.22/46 : date-----     | National Institutes of Health.<br>Patient movement data, State and county mental hospitals (annual).<br>NOTE.—See, for earlier class, FS 2.22 : M 52/39/ date.   |
| GS 6.6/2 : CT-----         | Public Buildings Service.<br>Handbooks, manuals, guides.   |
| I 44.11 : CT-----          | Bonneville Power Administration.<br>Bibliographies and lists of publications.  |
| L 25.6/2 : CT-----         | Veterans' Reemployment Rights Bureau.<br>Handbooks, manuals, guides.   |
| LC 1.6/3 : Reserved        | Library of Congress.   |
| LC 1.6/4 : CT-----         | Handbooks, manuals, guides.  |
| Pr 36.8 : CT-----          | President of United States.<br>Committees and commissions of the President.  |
| S 1.114/2-2 : CT-----      | State Department.<br>Foreign Service Institute, readers.   |
| S 1.121 : Reserved         |  |
| S 1.122 : date/nos-----    | International science notes.<br>NOTE.—See, for earlier class, NS 1.17/2 : (date/ nos.).  |
| T 22.42/2 : nos-----       | Internal Revenue Service.<br>Technical information release TIR (series).<br>Federal Reconstruction and Development Planning Commission for Alaska.   |
| Y 3.A1 1 s/3 : 1/date----- | Report.  |
| Y 3.A1 1 s/3 : 2 CT-----   | General publications.  |
| Y 3.At 7 : 55/date-----    | Atomic Energy Commission.<br>Telephone directory.  |

## Corrections for Previous Monthly Catalogs

Dec. 1963. Page 548, 1st column, last line. Correct entry number to read 1361.  
 Aug. 1964. Entry 14159, 100th set revised pages to Customs regulations; Mar.-Apr. 1964. Correct Government author above entry to read CUSTOMS BUREAU, Treasury Dept.  
 Sept. 1964. Entry 16742, Directory of State mental health personnel and regional offices of Department of Health, Education, and Welfare. Correct class to read FS 2.22 : M 52/40/964.

- Entry 16746, Patient movement data, State and county mental hospitals, 1960, Model Reporting Area for Mental Hospital Statistics, data classified by age, sex, diagnosis and time on books. Correct class to read FS 2.22/46: 960.
- Entry 16832, Digest of prepaid dental care plans, 1863. Correct date in title to read 1963 and class to read FS 2.2: D 43/7/963.
- Oct. 1964. Entry 17018, Flight information manual, v. 15, Sept. 1964. Correct price line to read \* Paper, \$3.00 (including basic manual and supplementary service for an indefinite period) ; \$1.00 additional for foreign mailing.



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# Monthly Catalog

NO. 838 • NOVEMBER 1964

## ADJUTANT GENERAL'S OFFICE (Army), Defense Dept. Washington, D.C. 20310

Special list; prepared by Catalog Section. (Administrative Service, Directorate, Army Library.)

- 19043 1964-1. Checklist of periodicals currently received in Army Library. Revised edition, Sept. 1964. [1964.] cover title, [1]+iv+79 p. 4° † (No copies available).  
L.C. card 63-61474 D 102.28/4 : 1964-1

## AGRICULTURAL MARKETING SERVICE, Agriculture Dept. Washington, D.C. 20250

- AMS (series). † A 88.40 : (nos.)
- 19044 141 (rev.). United States standards for grades of processed fruits, vegetables, and certain other products (as of Sept. 15, 1964). [1964.] 4 p. 4° (Fruit and Vegetable Division.)
- 19045 419. List of chemical compounds, authorized for use under USDA poultry and poultry products inspection programs. Revised Oct. 1964. [1964.] 55 p. 4° (Poultry Division, Inspection Branch.)
- Service and regulatory announcements. † • Item 111 A 88.6/3 : (nos.)
- 19046 153. Regulations of Department of Agriculture under United States cotton standards act, regulations of Department of Agriculture for classification for foreign growth cotton and cotton linters and United States cotton standards act. Revised Sept. 1964. [1964.] [2]+27 p. (Cotton Division.) †  
L.C. card 64-62983
- 19047 180. Cotton and cotton linters standards. Revised Sept. 1964. [1964.] 13 p. (Cotton Division.) [Title 7, Code of Federal regulation, pts. 27 and 28.]
- 19048 United States standards for grades of canned tomatoes, effective July 24, 1964, correction of printing error. [1964.] 1 p. 4° †  
A 88.6/2 : T 591/5/corr.sh.
- 19049 United States standards for grades of frozen concentrated orange juice, effective Oct. 19, 1964. 4th issue. [1964.] [2]+7+ii p. il. 4° [Published in Federal Register Sept. 4, 1964, supersedes standards which have been in effect since Dec. 1, 1955.] † A 88.6/2 : Or 1/3/964
- 19050 United States standards for grades of frozen spinach, effective Sept. 7, 1964. 6th issue, as amended. [1964.] [2]+7 p. 4° [Supersedes standards in effect since Mar. 7, 1961.] † Chief, Processed Products Standardization and Inspection Branch, Fruit and Vegetable Division, Agricultural Marketing Service, Department of Agriculture, Washington, D.C., 20250  
A 88.6/2 : Sp 4/964

## AGRICULTURAL RESEARCH SERVICE, Agriculture Dept. Washington, D.C. 20250

- ARS (series). † A 77.15 : (nos.)
- 19051 33-95. Design and operation of bioclimatic cabinet for simulating variable temperature, humidity, and light conditions; by N. E. Flitters. Oct. 1964. 12 p. il. 4°  
L.C. card Agr 64-479

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# GOVERNMENT PUBLICATIONS

## ARS (series)—Continued

- 19052 44-6, supp. 1. Supplement to hatcheries and dealers participating in national poultry improvement plan (changes reported to July 1, 1964); [compiled by Animal Husbandry Research Division]. July 1964. 5 p. 4°  
L.C. card 58-60307
- 19053 73-45. Electric sorting machines for tart cherries (1963 studies); [by R. T. Whittenberger and others]. Oct. 1964. 8 p. 4°
- 19054 91-44-1. Progress report, cooperative State-Federal tuberculosis eradication, fiscal year 1964. Oct. 1964. [2]+46+[17] p. il. 4°  
● Item 25-B  
L.C. card 64-61670
- 19055 93-2-8. Summary of activities, Meat Inspection Division, 1964; [prepared by Meat Inspection Division]. Oct. 1964. 24 p. il. 4° ● Item 25-B  
L.C. card 57-61902
- 19056 Incidence of bluetongue reported in sheep during calendar year 1963. May 10, 1964. [4] p. il. 4° (Animal Disease Eradication Division, Sheep and Goat Diseases and Ecto-parasites.) † A 77.231: 963
- 19057 Index-catalogue of medical and veterinary zoology: supp. 14, Authors, A to Z; by Judith M. Humphrey and Dorothy B. Segal. Sept. 1964. [1]+272 p. (Animal Disease and Parasite Research Division.) \* Paper, \$1.00. ● Item 31  
L.C. card Agr 62-796 A 77.219/2: 14
- 19058 [Plant import requirements of Federal Republic of Germany, Apr. 1, 1964], Changes. Oct. 1, 1964. 1 p. (Plant Quarantine Division, Hyattsville, Md.) † A 77.329: G 317/2/ch.
- 19059 Plant quarantine import requirements of St. Lucia. Nov. 2, 1964. 3 p. (Plant Quarantine Division; St. Lucia 353-A.) [Issued with perforations. Supersedes P.Q. 434 dated Oct. 14, 1937, and supp. 1 dated June 22, 1939.] † A 77.329: Sa21
- 19060 Plant quarantine import requirements of Uruguay. Oct. 5, 1964. 4 p. (Plant Quarantine Division; Uruguay: 353-A.) [Issued with perforations. Supersedes P.Q. 383, Sept. 14, 1940, and supplements 1, 2, and 3, Sept. 27, 1964, Dec. 26, 1941, and June 24, 1955.] † A 77.329: Ur 8
- 19061 Publications and patents of Southern Utilization Research and Development Division, Jan.-June 1964 [list], publication nos. 2656-2751. Aug. 1964. [2]+ii+31 p. 4° (Southern Regional Research Laboratory, 1100 Robert E. Lee Boulevard, New Orleans, La., 70124.) † A 77.17/3: 964

## AGRICULTURAL STABILIZATION AND CONSERVATION SERVICE, Agriculture Dept., Washington, D.C. 20250

- 19062 Agricultural conservation program, summary by States, 1963. [Sept. 1964.] cover title, 71 p. 4° [Text on p. 2 of cover.] † ● Item 103-B  
L.C. card 54-61490 A 82.37: Su 6/963

## AGRICULTURE DEPARTMENT Washington, D.C. 20250

NOTE.—Requests to the Department of Agriculture for publications should include the USDA number if given in the entry.

- Agriculture information bulletins. ● Item 4 A 1.75: (nos.)
- 19063 237. Controlling insects on flowers; [by Floyd F. Smith]. [July 1962, slightly revised June 1963.] [1963.] cover title, 80 p. il. ([Entomology Research Division, Agricultural Research Service.]) [Illustrations on covers are colored.] \* Paper, 40c.  
L.C. card Agr 64-474
- 19064 286. Beef cattle breeding; by Keith E. Gregory. [Sept. 1964.] iii+43 p. il. (Agricultural Research Service.) \* Paper, 25c.  
L.C. card Agr 64-476

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- 19065 288. Cooperative State-Federal research in agriculture and forestry for better agriculture and better living; [prepared by Cooperative State Research Service]. [Oct. 1964.] 8 p. il. †  
L.C. card Agr 64-443

Farmers' bulletins. ● Item 9

A 1.9: (nos.)

- 19066 1957. Cauliflower and broccoll varieties and culture; [by Ross C. Thompson]. [Revised Apr. 1961, slightly revised Oct. 1964.] [1964.] 16 p. il. ([Crops Research Division, Agricultural Research Service.]) \* Paper, 10c.
- 19067 2102. Growing loblolly and shortleaf pine in mid-south; [by Charles N. Grano]. [Dec. 1956, slightly revised 1964.] [1964.] [21+25 p. il. ([Southern Forest Experiment Station, Forest Service.]) \* Paper, 15c.
- 19068 2107. Defense against radioactive fallout on farm. [Revised Oct. 1964.] [1964.] 24 p. il. [Prepared by Agricultural Research Service, Department of Agriculture, in cooperation with Atomic Energy Commission, Office of Civil Defense, and Public Health Service.] \* Paper, 15c.  
L.C. card Agr 64-477
- 19069 2124. Liming soils, aid to better farming; [by Colin W. Whittaker, M. S. Anderson and R. F. Reitemeler]. [June 1959, slightly revised Oct. 1964.] [1964.] 32 p. il. ([Agricultural Research Service.]) [Supersedes Farmers' bulletin 2032, Liming soils for better farming.] \* Paper, 15c.  
L.C. card Agr 64-475
- 19070 2177. Single-phase electric motors for farm use; [by H. B. Puckett]. [Sept. 1961, slightly revised Oct. 1964.] [1964.] 24 p. il. ([Agricultural Engineering Research Division, Agricultural Research Service.]) [Supersedes Farmers' bulletin 1858, Electric motors for farm.] \* Paper, 15c.
- 19071 2201. Growing ginseng; [by Llewelyn Williams]. [Sept. 1964.] 12 p. il. ([Crops Research Division, Agricultural Research Service.]) [Supersedes Farmers' bulletin 1184, Ginseng culture.] \* Paper, 10c.  
L.C. card Agr 64-439
- 19072 2202. Simple plumbing repairs for home and farmstead; [prepared by Agricultural Engineering Research Division, Agricultural Research Service]. [Sept. 1964.] 16 p. il. [Supersedes Farmers' bulletin 1460, Simple plumbing repairs in home.] \* Paper, 10c.  
L.C. card Agr 64-440
- 19073 2205. Growing peaches east of Rocky Mountains; [by Crops Research and Entomology Research Divisions, Agricultural Research Service]. [Oct. 1964.] 24 p. il. [Supersedes Farmers' bulletin, 2021, Peach growing east of Rocky Mountains.] \* Paper, 15c.  
L.C. card Agr 64-462

Home and garden bulletins. ● Item 11

A 1.77: (nos.)

- 19074 20. How to tailor a woman's suit; [by Margaret Smith]. [Revised Oct. 1964.] [1964.] 24 p. il. 4° [Prepared by Clothing and Housing Research Division, Agricultural Research Service.] \* Paper, 20c.
- 19075 48. Home freezers, their selection and use; [prepared by Earl C. McCracken]. [Revised Feb. 1956, slightly revised Sept. 1964.] [1964.] [21+22 p. il. ([Clothing and Housing Research Division, Agricultural Research Service.]) [Supersedes MP 687.] \* Paper, 15c.

19076 [This entry number not used.]

- 19077 72. Nutritive value of foods; [prepared by Consumer and Food Economics Research Division, Agricultural Research Service]. [Revised Sept. 1964.] [1964.] 36 p. il. 4° \* Paper, 25c.  
L.C. card Agr 64-467
- 19078 74. Food and your weight; [by Louise Page and Lillian J. Fincher]. [Nov. 1960, slightly revised Oct. 1964.] [1964.] [21+30 p. il. ([Consumer and Food Economics Research Division, Agricultural Research Service.]) \* Paper, 15c.
- 19079 75. European earwig: how to control it around home; [by C. W. Getzendaner]. [Nov. 1960, slightly revised Sept. 1964.] [1964.] [8] p. il. narrow 8° ([Entomology Research Division, Agricultural Research Service.]) \* Paper, 5c.

Home economics research reports. ● Item 11-B

A 1.87: (nos.)

- 19080 24. Diet as factor in length of life and in structure and composition of tissues of rat with aging [with list of literature cited]; by Mildred Adams. Oct. 1964. v+108 p. il. 4° (Human Nutrition Research Division, Agricultural Research Service.) \* Paper, 70c.  
L.C. card Agr 64-473
- 19081 26. Rural family spending and consumption in low-income area in Kentucky [with list of literature cited]; by Jean L. Pennock. Aug. 1964. iv+101 p. il. 4° (Consumer and Food Economics Research Division, Agricultural Research Service.) \* Paper, 55c.  
L.C. card Agr 64-472

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# GOVERNMENT PUBLICATIONS

## Leaflets. ● Item 12

A 1.35: (nos.)

- 19082 161. Eastern tent caterpillar; [by B. A. Porter]. [Revised Agr. 1958, slightly revised Oct. 1964.] [1964.] [6] p. il. †
- 19083 364. Chinch bugs, how to control them, corn, sorghum, small grains; [prepared by Entomology Research Division, Agricultural Research Service]. [Revised Dec. 1958, slightly revised Oct. 1964.] [1964.] 8 p. il. \* Paper, 5c. L.C. card Agr 64-480
- 19084 383. Poultry mites, how to control them; [prepared by Entomology Research Division, Agricultural Research Service]. [Revised May 1964.] [1964.] [8] p. il. \* Paper, 5c.
- 19085 470. Mr. Field Crops Producer, it pays to use chemicals safely. [Mar. 1960, slightly revised Oct. 1964.] [1964.] [4] p. il. narrow 8° \* Paper, 5c.

## Marketing research reports. ● Item 13-B

A 1.82: (nos.)

- 19086 674. Freezing of commercial bakery products, current practices, problems, and prospects; [prepared by Norman L. Rollag and Robert V. Enochian]. [Sept. 1964.] [1]+iv+41 p. il. 4° (Economic Research Service, Marketing Economics Division.) \* Paper, 30c. L.C. card Agr 64-466
- 19087 675. Economics of milk marketing in Alaska; [prepared by W. Webster Jones]. [Sept. 1964.] vi+34 p. il. 4° [Prepared in cooperation with Alaska Agricultural Experimental Station.] †
- 19088 676. Loading boxcars at country elevators in hard winter wheat area; [by Albert H. Graves]. [Sept. 1964.] 32 p. il. 4° (Agricultural Research Service.) [Prepared in cooperation with Kansas Agricultural Experiment Station.] \* Paper, 20c. L.C. card Agr 64-465
- 19089 677. Spot cotton quotations, their relation to spot values and to average differentials; [by D. L. Pritchard]. [Oct. 1964.] iv+38 p. il. 4° (Marketing Economics Division, Economic Research Service.) \* Paper, 25c. L.C. card Agr 64-446

## Miscellaneous publications. ● Item 13-A

A 1.38: (nos.)

- 19090 705. Graphic summary of world agriculture; [by Nelson P. Guidry]. [Revised Sept. 1964.] [1964.] 64 p. il. (Economic Research Service, Regional Analysis Division.) \* Paper, 30c. L.C. card Agr 64-468
- 19091 966. Some training and services needed in agriculture; [by Proctor Campbell]. [Sept. 1964.] [2]+13 p. il. \* Paper, 15c. L.C. card Agr 64-447
- 19092 963. Developing self-guiding trail in national forests; [by Visitor Information Service]. [Sept. 1964.] [2]+ii+18 p. il. 4° (Forest Service.) \* Paper, 20c. L.C. card Agr 64-478
- 19093 973. 4-bedroom farmhouse with basement. Oct. 1964. [2] p. il. 4° (Cooperative farm building plan exchange; plan no. 7151.) \* Paper, 5c.
- 19094 974. 3-bedroom farmhouse, with basement. Oct. 1964. [2] p. il. 4° (Cooperative farm building plan exchange; plan no. 7163.) \* Paper, 5c.
- 19095 975. Portable shade for hogs. Sept. 1964. [4] p. il. 4° (Cooperative farm building plan exchange; plan no. 5947.) †
- 19096 976. Hog feeding unit. Oct. 1964. [2] p. il. 4° (Cooperative farm building plan exchange; plan no. 5945.) \* Paper, 5c.
- 19097 977. Two-horse trailer. Oct. 1964. [2] p. il. 4° (Cooperative farm building plan exchange; plan no. 5943.) \* Paper, 5c.
- 19098 978. 4-bedroom farmhouse (frame construction). Aug. 1964. [2] p. il. 4° (Cooperative farm building plan exchange; plan no. 7162.) \* Paper, 5c.
- 19099 979. Cattle feeding shelter. Oct. 1964. [2] p. il. 4° (Cooperative farm building plan exchange; plan no. 5939.) \* Paper, 5c.

## PA [Program aid] (series). † ● Item 14-A

A 1.68: (nos.)

- 19100 394. U.S. Department of Agriculture, how it serves you. [Revised Oct. 1964.] [1964.] 8 p. il. narrow 8° (Office of Information.)
- 19101 409. Public forestry assistance for small woodlands. Revised Sept. 1964. [1964.] [6] p. il. narrow 8° (Forest Service.)

## Statistical bulletin.

- 19102 329. Statistics on cotton and related data, 1925-62, supplement for 1964; [prepared by E. Frances Morriss and Una C. Saunders]. [Oct. 1964.] x+137 p. 4° (Economic Research Service, Economic and Statistical Analysis Division.) † ● Item 15  
L.C. card Agr 63-196

A 1.34: 329/supp.964

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Technical bulletins. ● Item 16

A 1.36: (nos.)

- 19103 1309. Hydraulic and geometrical relationships of lay-flat irrigation tubing; [by Allan S. Humpherys and C. W. Lauritzen]. [Oct. 1964.] [2]+38 p. il. (Agricultural Research Service.) [Prepared in cooperation with Utah Agricultural Experiment Station.] \* Paper, 20c.  
L.C. card Agr 64-460
- 19104 1310. Seasonal changes in Florida avocados [with list of literature cited; by T. T. Hatton, Jr., Paul L. Harding, and W. F. Reeder]. [Sept. 1964.] 47 p. il. ([Market Quality Research Division, Agricultural Research Service.]) [Includes list of market research publications of interest to Florida avocado growers and shippers. Some illustrations are colored.] \* Paper, 35c.  
L.C. card Agr 64-459
- 19105 1312. Comparison of chromic oxide and conventional methods in digestion trials using steers fed pelleted rations [with list of literature cited; by P. A. Putnam, C. J. Elam and D. Everson]. [Oct. 1964.] [2]+13 p. (Agricultural Research Service.) \* Paper, 10c.  
L.C. card Agr 64-463

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AFCRL (series). (Air Force Cambridge Research Laboratories, Office of Aerospace Research.) D 301.45/4-3: (nos.)

- 19106 63-371. Study of directive VLF antennas for reception of transpolar sferics from continental United States [with list of references; by] Roger E. Clapp, James C. Maxwell, C. Harold Colburn, Air Technology Corporation, 640 Memorial Drive, Cambridge, Mass., 02139. [1963.] [1]+x+125 p. il. 4° (No. 169-1, contract AF 19(628)-1697, project 4662, task 466205, final report Aug. 30, 1963. ‡
- 19107 64-344. See, below, Physical sciences research papers 31.
- 19108 64-400. See, below, Environmental research papers 20.
- 19109 64-434. See, below, Physical sciences research paper 19.
- 19110 64-446. See, below, Environmental research papers 21.
- 19111 64-461. See, below, Physical sciences research papers 29.
- 19112 64-469. See, below, Instrumentation papers 43.
- 19113 64-483. See, below, Air Force surveys in geophysics 157.
- 19114 64-519. See, below, Physical sciences research papers 30.
- 19115 64-547. See, below, Physical sciences research papers 32.
- 19116 64-549. See, below, Environmental research papers 30.
- 19117 64-550. See, below, Physical sciences research papers 33.
- 19118 64-590. See, below, Physical sciences research papers 38.
- 19119 64-591. See, below, Physical sciences research papers, 39.
- 19120 64-630. See, below, Physical sciences research papers 42.
- 19121 64-631. See, below, Environmental research papers 39.
- 19122 64-632. See, below, Special reports 4.
- 19123 64-635. See, below, Instrumentation papers 46.
- 19124 64-639. See, below, Instrumentation papers 47.
- 19125 64-660. See, below, Environmental research papers 41.
- 19126 64-661. See, below, Instrumentation papers 48.
- 19127 64-662. See, below, Environmental research papers 40.
- 19128 64-679. See, below, Physical sciences research papers 44.
- 19129 64-680. See, below, Environmental research papers 42.
- 19130 64-687. See, below, Physical sciences research papers 45.
- 19131 64-713. See, below, Special report 5.
- 19132 64-727(1). See, below, Special reports 6.
- 19133 64-737. See, below, Physical and mathematical sciences research papers 48.

Air Force Flight Test Center: Technical documentary report FTC-TDR (series). (Air Force Systems Command, Edwards Air Force Base, Calif.) ‡ D 301.45/31-2: (nos.)

- 19134 64-11. Investigation of coefficients of friction and wear property of wire brush skids constructed with René 41 bristles [with list of references; by] Gerald D. Tebben. Aug. 1964. cover title, iii-iv+21 p. il. 4°
- 19135 64-23. T-39A category 2 performance test [with list of references; by] Wilfred G. Mackey, Harry M. Archer. Oct. 1964 cover title, iii-iv+80 p. il. 4°

Air Force manual AFM (series). † ● Item 421 D 301.7: (nos.)

- 19136 52-8A, v. 1. Technical training: Electronic circuit analysis, Change; Oct. 1, 1964. [1964.] iii p. 4° [Issued in loose-leaf form.]
- 19137 52-8A, v. 2. Same: Electronic circuit analysis, Change; Oct. 1, 1964. [1964.] [3] leaves, il. 4° [Issued in loose-leaf form.]

Air Force pamphlet AFP (series).

- 19138 168-1-1. See Armed Forces Information and Education, DoD pamphlet PA-3.

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Air Force surveys in geophysics. (Air Force Cambridge Research Laboratories, Office of Aerospace Research.)     $\Phi$  (Price upon application.)

- 19139    157. Horizontal and vertical distributions of atmospheric density, up to 90 km [with list of references; by] Allen E. Cole. [and] Arthur J. Kantor. June 1964. vii+24+[3] p. il. 4° (AFCLR-64-483; Aerospace Instrumentation Laboratory project 8624.)    D 301.45/9:157

Arctic Aeromedical Laboratory: Technical documentary report AAL-TDR (series). (Aerospace Medical Division, Air Force Systems Command, Fort Wainwright, Alaska.)    D 301.45/30-2: (nos.)

- 19140    63-16. Caloric cost and fluid and electrolyte balance in simulated subarctic survival situations [with list of references]; prepared by T. A. Rogers, J. A. Setliff and J. C. Kloppe. Dec. 1963. cover title, iii-iv+48 p. il. 4° (Project 8238, task 823803.) [Prepared under contract AF 41(657)-364 by Department of Physiology, Stanford University, Stanford, Calif.]     $\Phi$  (Price upon application).
- 19141    63-17. Recirculation of lymphocytes [with list of references; prepared by N. B. Everett, Ruth W. Caffrey, and W. O. Ricketts]. July 1964. cover title, [1]+15 p. il. 4° (Project 8237, task 823702.) [Prepared under contract AF 41(657)-309 by Department of Anatomy, University of Washington, Seattle, Wash.]     $\Phi$  (Price upon application).
- 19142    63-21. Variations of humoral and cellular elements of blood of Alaskan ground squirrels during hibernation and induced hypothermia [with list of references; prepared by J. P. Schmidt and T. G. Metcalf]. Dec. 1963. cover title, [1]+11 p. il. 4° (Project 8241, task 824101.) [Prepared under contract AF 41(609)-1856 by University of New Hampshire, Durham, N.H.]     $\Phi$  (Price upon application).
- 19143    63-23. Effect of cold exposure on formed elements of mouse peripheral blood [with list of references; prepared by S. Marcus and F. Miya]. June 1964. cover title, [1]+24 p. il. 4° (Project 8241, task 824101.) [Prepared under contract AF 41(657)-311 by University of Utah, College of Medicine, Salt Lake City, Utah.]     $\Phi$  (Price upon application).
- 19144    63-25. Influence of hibernation upon experimental infections in Alaskan ground squirrel [with list of references; by T. G. Metcalf and J. P. Schmidt]. Dec. 1963. cover title, [1]+5 p. il. 4° (Project 8241, task 824101.) [Prepared under contract AF 41(609)-1856 by University of New Hampshire, Durham, N.H.]     $\Phi$  (Price upon application).
- 19145    63-34. Natural mammalian hibernation, bibliography; [by] William V. Mayer. June 1964. cover title, vii+200+[1]+92 p. 4° ([Project 8237, task 823703.]) [Prepared under contract AF 41(657)-230 with partial support of Office of Naval Research, Physiology Branch, by Wayne State University, Detroit, Mich.]     $\Phi$  (Price upon application).
- 19146    63-36. Treatment of undiluted human waste by activated sludge process; [with list of references; by D. J. Baumgartner and C. F. Walters]. Mar. 1964. cover title, [1]+20 p. il. 4° (Project 8246, task 8246-1.) [Prepared under cross service agreement CSA 61-1 by Arctic Health Research Center, Public Health Service, Department of Health, Education, and Welfare, Anchorage, Alaska.]     $\Phi$  (Price upon application).
- 19147    63-37. Method of determining pollution of surface waters by eggs of Echinococcus [with list of references; by D. J. Baumgartner]. July 1964. cover title, [1]+10 p. il. 4° (Project 8246, task 8246-1.) [Prepared under cross service agreement CSA 61-1 by Arctic Health Research Center, Public Health Service, Department of Health, Education, and Welfare, Anchorage, Alaska.]     $\Phi$  (Price upon application).
- 19148    64-7. Calibration of mercury strain gauge [with list of references; by] Charles J. Eagan. June 1964. cover title, [1]+13 p. il. 4° (Project 8237, task 823701.)     $\Phi$  (Price upon application.)

Environmental research papers. (Air Force Cambridge Research Laboratories, Office of Aerospace Research, L. G. Hanscom Field, Mass.)    D 301.45/39: (nos.)

- 19149    20. Altitude variation of Rayleigh, aerosol, and ozone attenuating components in ultraviolet region [with list of references; by] L. Elterman. May 1964. ix+27+[2] p. il. 4° (AFCLR-64-400; Optical Physics Laboratory Project 7670.)     $\Phi$  (Price upon application).
- 19150    21. Long line azimuths from optical observations of ANNA flashing satellite [with list of references; by] Armando Mancini. June 1964. v+17 p.+[2] leaves, il. 4° (AFCLR-64-446; Terrestrial Sciences Laboratory project 7600.)     $\Phi$  (Price upon application).
- 19151    30. Shear deformation of upper mantle mineral analogues, tests to 55 kb at 27°C [with list of references; by] R. E. Riecker [and] K. E. Seifert. July 1964. vii+21+[2] p. il. 4° (AFCLR-64-549; Terrestrial Sciences Laboratory project 8652.) [Errata, 1 p., issued also.]     $\Phi$  (Price upon application).

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- 19152 39. Radar reflectivity of storms containing spongy hail [with list of references; by] David Atlas, Kenneth R. Hardy, Jürg Joss. Aug. 1964. [1]+1955-61+[2] p. il. 4° (AFCRL-64-631; Meteorology Laboratory project 6672.) [Reprinted from Journal of geophysical research, v. 69, no. 10, May 15, 1964.] ‡
- 19153 40. Radio star scintillation over Canada during July 20, 1963 eclipse [with list of references; by] R. S. Allen [and others]. Aug. 1964. vii+15+[4] p. il. 4° (AFCRL-64-662; Space Physics Laboratory project 4643.) [The research reported by this document was partially supported by AFCRL Laboratory Directors fund.] Φ (Price upon application.)
- 19154 41. Tropopause definition and hourly fluctuations [with list of references; by] Arthur J. Kantor. Aug. 1964. vii+23+[4] p. il. 4° (AFCRL-64-660; Aerospace Instrumentation Laboratory project 8624.) Φ (Price upon application.)
- 19155 42. Olivine shear strength at high pressure and room temperature [with list of references cited; by] R. E. Riecker, K. E. Seifert. Aug. 1964. [1]+571-573 p. il. 4° AFCRL-64-680; (Terrestrial Sciences Laboratory project 8652.) [Reprinted from Geological Society of America bulletin, v. 75, June 1964.] ‡

Instrumentation papers (series). (Air Force Cambridge Research Laboratories, Office of Aerospace Research, Hanscom Field, Mass.)  
D 301.45/10: (nos.)

- 19156 43. Preliminary evaluation of Cricketsonde rocket system; [by] Konstantins Pocs. June 1964. v+14+[3] p. il. 4° (AFCRL-64-469; Aerospace Instrumentation Laboratory project 6682.) Φ (Price upon application.)
- 19157 46. Prototype lunar transponder [with list of references; by] Mahlon S. Hunt. Aug. 1964. [1]+2399-2401 p. il. 4° (AFCRL-64-635; Terrestrial Sciences Laboratory project 8654.) [Reprinted from Journal of geophysical research v. 69, no. 11, June 1, 1964.] ‡
- 19158 47. Automatic plotting of spin-wave instability threshold data; [by] Tom G. Purnhagen. Aug. 1964. [1]+553-561 p. il. 4° (AFCRL-64-639; Microwave Physics Laboratory project 4600.) [Reprinted from Review of scientific instruments, v. 35, no. 5, May 1964.] ‡
- 19159 48. Logical techniques for glottal source measurements; [by] John L. Ramsey. Aug. 1964. vii+10+[4] p. il. 4° (AFCRL 64-661; Data Sciences Laboratory project 5628.) Φ (Price upon application.)

OAR (series). (Office of Aerospace Research.)

- 19160 64-8. Author's guide for technical reporting; prepared by Office of Scientific and Technical Information. July 1964. vii+26 p. 4° Φ (Price upon application). ● Item 422-B  
D 301.69/3: 64-8

Personnel Research Laboratory: Technical documentary report PRL-TDR (series). (6570th Personnel Research Laboratory, Aerospace Medical Division, Air Force Systems Command, Lackland Air Force Base, Tex.)  
D 301.45/27: (nos.)

- 19161 64-16. Calculation of percentage points of F distribution [with list of references]; by George I. Neel, Larry K. Whitehead, Robert A. Bottenberg. June 1964. ili+12 p. 4° (Project 7719, task 771901.) [Errata, 1 p., was issued also.] Φ (Price upon application.)
- 19162 64-17. Normative distributions of AQE aptitude indexes for high-school-age boys [with list of references]; by Ernest C. Tupes and Marion F. Shaycoft. July 1964. v+11+[2] p. 4° (Project 7717, task 771705.) Φ (Price upon application.)
- 19163 64-18. Predicting first year achievement of Air Force Academy cadets, class of 1964; by Robert E. Miller. July 1964. v+18+[2] p. 4° (Project 7717, task 771706.) ‡
- 19164 64-19. Project M, data development and analyses in support of officer management [with list of references]; by Ray W. Alvord. July 1964. vi+39+[2] p. il. 4° (Project 7719, task 771904.) Φ (Price upon application.)

Physical sciences research papers. (Air Force Cambridge Research Laboratories, Office of Aerospace Research.)  
D 301.45/40: (nos.)

- 19165 19. Study of transverse modes of ruby lasers using beat frequency detection and fast photography [with list of references; by] C. Martin Stickley. May 1964. x+76 p. il. 4° (AFCRL-64-434; Optical Physics Laboratory project 4645.) Φ (Price upon application.)
- 19166 29. Geometry and 1st-order error statistics for 3- and 4-station hyperbolic fixes on spherical earth [with list of references; by] Edward A. Lewis. June 1964. viii+88 p. il. 4° (AFCRL-64-461; Upper Atmosphere Physics Laboratory project 4662.) Φ (Price upon application.)

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- 19167 30. Ion dissociation in drift tube of time-of-flight mass spectrometer: 3, Flight-time shift equations for spurious fragment peaks arising from charge transfer and dissociation reactions occurring inside potential barrier [with list of references; by] W. W. Hunt, jr. June 1964. v+10 p. il. 4° (AFCLR-64-519; Upper Atmosphere Physics Laboratory project 7635.)  $\Phi$  (Price upon application).
- 19168 31. Dolph-Tchebyscheff arrays of many elements and arbitrary uniform spacing [with list of references; by] Charles J. Drane, jr. June 1964. iii+36 p. il. 4° (AFCLR-64-344; Microwave Physics Laboratory project 4600.)  $\Phi$  (Price upon application).
- 19169 32. Measurement of noise figure of X-band waveguide mixer with tunnel diode [with list of references; by] Gustav H. Blaesser. July 1964. v+11 p. il. 4° (AFCLR-64-547; Microwave Physics Laboratory project 4600.)  $\Phi$  (Price upon application).
- 19170 33. Transient reflection and transmission of plane wave normally incident upon semi-infinite anisotropic plasma [with list of references; by] Carl T. Case. July 1964. v+27+[4]+ p. il. 4° (AFCLR-64-550; Microwave Physics Laboratory project 4642.)  $\Phi$  (Price upon application).
- 19171 38. Apparent sky temperatures at millimeter-wave frequencies [with list of references; by] Karl N. Wulfsberg. July 1964. vii+29 p. il. 4° (AFCLR-64-590; Microwave Physics Laboratory project 4600.)  $\Phi$  (Price upon application).
- 19172 39. Observation of 2.1 charge transfer in TOF mass spectrometer [with list of references; by] W. W. Hunt, jr., K. E. McGee. July 1964. iii+9 p. il. 4° (AFCLR-64-591; Upper Atmosphere Physics Laboratory project 8605.) [Paper presented at southwestern meeting of American Physical Society, Tucson, Ariz., Feb. 28, 1964.]  $\Phi$  (Price upon application).
- 19173 42. Dislocation structures in single-crystal  $Al_2O_3$ ; [by] D. L. Stephens, W. J. Alford. Aug. 1964. [1]+81-86 p. il. 4° (AFCLR-64-630; Solid State Sciences Laboratory project 5621.) [Presented at 65th annual meeting. American Ceramic Society, Pittsburgh, Pa., Apr. 29, 1963. Reprinted from Journal of American Ceramic Society, v. 47, no. 2, Feb. 1964. Copyright 1964 by American Ceramic Society.]  $\dagger$
- 19174 44. Molecular structure of 2-(4'-amino-5'-azamethenyl pyrimidyl)-3 pentene-4-01; [by] N. F. Yannoni, Jerry Silverman. Aug. 1964. [8] p. il. 4° (AFCLR-64-679; Space Physics Laboratory project 8659.) [Reprinted from Nature, v. 202, no. 4931, May 2, 1964.]  $\dagger$
- 19175 45. Output power from GaAs lasers at room temperature; [by] C. C. Gallagher [and others]. Aug. 1964. [6] p. il. 4° (AFCLR-64-687; Optical Physics Laboratory project 5634.) [Reprinted from Proceedings of IEEE, v. 52, no. 6, June 1964.]  $\dagger$
- 19176 48. Confidence levels for sample mean and standard deviation of Rayleigh process [with bibliography; by] Leo M. Keane. Sept. 1964. iii+6+[2] p. il. 4° (AFCLR-64-737; Microwave Physics Laboratory project 4600.)  $\Phi$  (Price upon application).

School of Aerospace Medicine: Technical documentary report SAM-TDR (series). (Aerospace Medical Division (AFSC), Brooks Air Force Base, Tex.)  $\dagger$  D 301.26/13-6: (nos.)

- 19177 64-36. Visual recovery from brief exposures to very high luminance levels [with list of references; by Glenn A. Fry and Norma D. Miller]. Aug. 1964. cover title, iii+216 p. il. 4° (Task 630103.) [Prepared under contract AF 33(657)-9229 by Ohio State University Research Foundation, Columbus, Ohio.]
- 19178 64-38. Simple, inexpensive way to monitor electrocardiograms on actively exercising subject [with list of references; by Kenneth H. Cooper]. Aug. 1964. cover title, iii+10 p. il. 4° (Task 793003.)
- 19179 64-40. Radioprotection with AET-cysteine in rhesus monkey [with list of references; by George S. Melville, jr., George W. Harrison, jr., and Thomas P. Leffingwell]. Aug. 1964. cover title, iii+9 p. il. 4° (Task 775703.)
- 19180 64-43. Sound transmission in helium and various gases at low pressures [with list of references; prepared by Julian P. Cooke]. Aug. 1964. cover title, iii+9 p. il. 4° (Task 775801.)
- 19181 64-47. Fasting and postprandial serum glucose levels as related to periodontal status and caries experience [with list of references; by Ira L. Shannon and William A. Gibson]. Sept. 1964. cover title, iii+5 p. 4° (Task 775602.)
- 19182 64-49. Effects of arginine, l-glutamate, and pyridoxine of toxicity of aurozine [with list of references; by Miguel A. Medina]. Aug. 1964. cover title, iii+3 p. 4° (Task 775303.)
- 19183 64-50. Parotid fluid corticosteroid levels at 1 and 2 hours after graded doses of ACTH [with list of references; by Ira L. Shannon, John R. Prigmore and Steven C. Beering]. Aug. 1964. cover title, iii+3 p. il. 4° (Task 775602.)
- 19184 64-51. Vacuum adaptation of baseplate materials [with list of references; by James M. Terry and Roy Wahlberg]. Aug. 1964. cover title, iii+8 p. il. 4° (Task 775303.)

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- 19185 64-53. Improved gradient layer animal calorimeter [with list of references; by Phillip D. Quattrone]. Sept. 1964. cover title, iii+11 p. il. 4° (Task 775303.)
- 19186 64-57. Cortisone oral glucose tolerance responses in healthy young adult males classified as to oral health status [with list of references; by Ira L. Shannon and William A. Gibson]. Sept. 1964. cover title, iii+9 p. il. 4° (Task 775602.)

Special reports. (Air Force Cambridge Research Laboratories, Office of Aerospace Research, L. G. Hanscom Field, Mass.) D 301.45/42: (nos.)

- 19187 4. Visual observations beneath developing tornado; [by] Ralph J. Donaldson, jr., William E. Lamkin. Aug. 1964. [1]+326-328 p. il. 4° (AFCRL-64-632: Meteorology Laboratory project 6672.) [Reprinted from Monthly weather review, v. 92, no. 6, June 1964.] ‡
- 19188 5. Bibliography of rock deformation; [by] R. E. Riecker. Sept. 1964. v+51 p. 4° (AFCRL-64-713: Terrestrial Sciences Laboratory project 8652.) ‡ (Price upon application).
- 19189 6. Modification of electromagnetic scattering cross sections in resonant region, symposium record, v. 1 [with lists of references]; L. K. Schindler, R. B. Mack, editors. Sept. 1964. ix+174 p. il. 4° (AFCRL-64-727(1): Microwave Physics Laboratory project 5635.) [Symposium held at L. G. Hanscom Field, Bedford, Mass., June 4, 1963.] ‡ (Price upon application).

# AIR TRAFFIC SERVICE, Federal Aviation Agency Washington, D.C. 20553

- 19190 ATC procedures, AT P 7110.1B; Nov. 12, 1964. [3d edition.] [1964.] [176] p. il. 4° [Issued in loose-leaf form. Cancels AT P 7110.1A and all changes thereto.] \* Paper, \$4.00 (including basic manual and supplementary material for an indefinite period); \$1.50 additional for foreign mailing. ● Item 431-D-2 FAA 3.9: 964
- 19191 [ATS handbook]: International weather schedules service O. AT P 7330.4A. [Change] 1, [Aug. 28, 1964]. [1964.] [163] p. 4° [Cancellation date Feb. 1, 1965. Issued in loose-leaf form.] ‡ ● Item 431-D-1  
FAA 3.8: W 37/2/964/ch.1
- 19192 Handbook of facility operation AT P 7230.1A, [Change] 4; [July 24, 1964]. [1964.] [46] p. 4° [Effective Sept. 20, 1964. Cancellation date Dec. 1, 1964. Issued in loose-leaf form.] ‡ ● Item 431-D-1  
FAA 3.8: F 11/964/ch.4
- 19193 — Change 5; [Sept. 16, 1964]. [1964.] [4] p. 4° [Effective date Oct. 1, 1964; cancellation date Dec. 1, 1964. Issued in loose-leaf form.] ‡ ● Item 431-D-1  
FAA 3.8: F 11/964/ch.5

# AIRPORTS SERVICE, Federal Aviation Agency Washington, D.C. 20553

- 19194 National airport plan, fiscal years 1965-69. [1964.] vii+250 p. il. 4°  
\* Paper, \$1.50. ● Item 431-C-7  
L.C. card 47-23122 FAA 8.11: 965-69

# AMERICAN BATTLE MONUMENTS COMMISSION Washington, D.C. 20421

- 19195 Honolulu Memorial, National Cemetery of Pacific, Honolulu, Hawaii, West Coast Memorial [and] East Coast Memorial. 1964. 34+[2] p. il. ‡  
● Item 1050  
L.C. card 64-62929 Y 3.Am 3: H 75

# AREA REDEVELOPMENT ADMINISTRATION, Commerce Dept. Washington, D.C. 20230

- 19196 ARA field report: Opportunities for economic development in Lowell, Mass. Oct. 1964. 4 p. 4° ‡ Paper, 10c. C 46.22: L 95
- 19197 — Opportunities for economic growth in middle Kentucky River Valley area, Ky. (Breathitt, Lee, Owsley and Wolfe Counties) Sept. 1964. 8 p. il. 4° ‡ Paper, 10c. C 46.22: K 41

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**ARMED FORCES INFORMATION AND EDUCATION, Defense Dept.**  
Washington, D.C. 20301

DoD pamphlet. ● Item 312-A

- 19198 PA-3. Dependents' medical care program. [1964.] [2]+36 p. il. 12° ([Army Dept.] DA pam 360-505; [Navy Dept.] NAVPERS; [Air Force Dept.] AFP 168-1-1; [Marine Corps] NAVMC 2601.) [Supersedes DoD pam 6-4A, DA pam 355-28, July 26, 1963, and AFP 168-1-1. Aug. 20, 1962.] ‡ D 2.14:PA-3

For commanders this changing world. Semi-monthly. \* Paper, \$1.00 a yr., 50c. additional for foreign mailing; single copy, 5c. ● Item 312-B  
D 2.15:4/7

- 19199 v. 4, no. 7. North Africa, time of decisions. Oct. 1, 1964. 4 p. 4°

**ARMS CONTROL AND DISARMAMENT AGENCY**  
Washington, D.C. 20451

- 19200 Documents on disarmament, 1963 [with bibliography; compiled and annotated by Robert W. Lambert, assisted by Ruth Ihara]. [Oct. 1964.] xv+740 p. il. ([Publication 24.]) \* Paper, \$2.00. ● Item 865-B  
L.C. card 60-64408 AC 1.11/2:963

**ARMY DEPARTMENT, Defense Dept.**  
Washington, D.C. 20310

AMC pamphlets. (Army Material Command.) ‡ ● Item 322-A  
D 101.22/3:(nos.)

- 19201 385-61. Safety digest, Sept. 1964; [prepared by Safety Division]. [1964.] cover title, ii+42 p. il. 4° [Text and another illustration on p. 2 of cover.]  
19202 706-247. Research and development of material, engineering design handbook, ammunition series: sec. 4, Design for projection [with lists of references and bibliography]. July 1964. cover title, iv+190 p. il. 4° [Prepared by Technical Writing Service of McGraw-Hill Book Co., based on technical information and data furnished by Picatinny Arsenal, final preparation by Engineering Handbook Office of Duke University, prime contractor to Army Research Office-Durham. Reprint without change of ORDP 20-247. Issued with perforations.]  
L.C. card 64-62984

Field manual FM (series).

- 19203 20-15. Pole and frame supported tents [with list of references]. Sept. 1964. cover title, 146 p. il. 4° [Supersedes FM 20-15, Jan. 9, 1956, including Changes 1, June 9, 1958.] ‡ ● Item 324  
L.C. card 64-62914 D 101.20:20-15/2

Pamphlets. ● Item 327 D 101.22:(nos.)

- 19204 16-2. Challenge of chaplaincy in United States Army. [Sept. 1964.] cover title, [16] p. il. 4° [Text on p. 2-3 of cover.] ‡  
19205 27-101-162. Judge Advocate legal service. Aug. 26, 1964. 12 p. [Issued with perforations.] ‡  
19206 27-101-163. Same: Sept. 23, 1964. 12 p. [Issued with perforations.] ‡  
19207 27-161-1. International law, v. 1. June 1964. cover title, x+252 p. 4° [Contains copyright material.] \* Paper, \$1.25.  
L.C. card 63-60253  
19208 27-173. Military justice, trial procedure. June 1964. cover title, xiii+260 p. 4° \* Paper, \$1.50.  
L.C. card 64-62920  
19209 360-505. See Armed Forces Information and Education, DoD pamphlet PA-3.  
19210 550-22. U.S. Army area handbook for Cyprus [with bibliography; by T. W. Adams, Foreign Areas Studies Division, Special Operations Research Office, American University]. June 5, 1964. xii+441 p. il. \* Fabrikoid, \$2.00.  
L.C. card 64-60529  
19211 550-28. U.S. Army area handbook for Ethiopia [with bibliographies; by George A. Lipsky and others, Foreign Areas Studies Division, Special Operations Research Office, American University]. Oct. 1960, 2d edition, June 24, 1964. [1964.] xl+621 p. il. 4 maps. \* Paper, \$2.50.  
L.C. card 64-62639

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- 19212 550-29. U.S. Army area handbook for Germany [with bibliographies; by Norman C. Walpole and others, Foreign Areas Studies Division, Special Operations Research Office, American University]. June 1960, 2d edition, June 25, 1964. [1964.] xii+955 p. il. 8 pl. 6 maps. \* Paper, \$4.00.  
L.C. card 64-62639
- 19213 715-50-44. Procurement legal service. Aug. 31, 1964. 6 p. 4° [Issued with perforations.] \* Paper, 5c.
- ROTC manual.**
- 19214 145-60. Small unit tactics, including communication [with list of references]. June 1964. cover title, [1]+417 p. il. 4° [Supersedes ROTCM 145-60, July 9, 1958.] ‡ ● Item 327-D  
L.C. card 64-62913 D 101.48: 145-60
- Technical manual TM (series). ● Item 329 D 101.11:(nos.)**
- 19215 1-215. Attitude instrument flying [with list of references]. Sept. 1964. cover title, [103] p. il. 4° [Supersedes TM 1-215, Dec. 8, 1958, Change 1, Sept. 8, 1960, and Change 4, Mar. 21, 1962.] ‡  
L.C. card 64-62915
- 19216 5-360. Port construction and rehabilitation [with list of references]. Sept. 1964. cover title, 186 p. il. 2 pl. 4° [Issued with perforations. Supersedes TM 5-360, Feb. 15, 1953 and TB ENG 115, May 18, 1956.] ‡  
L.C. card 64-62972
- 19217 10-210. Inspection and storage of subsistence supplies [with list of references]. Sept. 1964. cover title, 86 p. 4° [Issued with perforations. Supersedes TM 10-210, Sept. 23, 1940.] ‡ ● Item 329
- 19218 10-417. Meat market operations commissary stores, Changes 4; Sept. 5, 1964. [1964.] 2 p. 4° [Issued with perforations.] ‡
- 19219 10-500-1. Airdrop of supplies and equipment: Rigging components of U.S. Army air/ground pickup system. Sept. 1964. cover title, 21 p. il. 4° [Issued with perforations.] ‡  
L.C. card 64-62912
- 19220 10-500-49. Airdrop of supplies and equipment: Rigging, water purification unit, Erdlator, trailer-mounted, 600 gph [with list of references]. Oct. 1964. cover title, 17 p. il. 4° (Air Force Dept.; TO 13C7-7-11.) [Issued with perforations. Supersedes TM 10-500-49/TO 13C7-7-11, including Changes 1, Apr. 11, 1961, and TM 10-500-49-3/TO 13C7-7-41, Nov. 28, 1962.] ‡
- 19221 11-487H-/11. See Defense Department, Military handbook MIL-HDBK 172A.
- 19222 55-710. Transportation services at continental United States (Conus) installations [with list of references]. Aug. 1964. cover title, 119 p. il. 4° [Issued with perforations.] ‡  
L.C. card 64-62971

## ARMY MEDICAL SERVICE, Defense Dept. Washington, D.C. 20310

Army Medical Research and Nutrition Laboratory, Fitzsimons General Hospital, Denver, Colo., reports. D 104.17: (nos.)

- 19223 282. Comparison of mineral excretion (calcium and iodine) in arm and total body sweat [with list of literature cited]; by C. Frank Consolazio [and others]. Aug. 14, 1964. ii+13+[1] p. 4° ([Project 3A012501A803, Military internal medicine, task 02, Metabolism and nutrition, sub-task 07, Environmental nutrition.]) ‡
- 19224 284. Trace mineral losses in sweat [with list of literature cited]; by C. Frank Consolazio [and others]. Aug. 18, 1964. [2]+14+[1] p. 4° ([Project 3A012501A803, Military internal medicine, task 03, biochemistry, sub-task 00, mineral metabolism.]) ‡

## ATOMIC ENERGY COMMISSION Washington, D.C. 20545

AEC research and development reports. Y 3.At 7: 22/(letters-nos.)

- 19225 AEC-tr-6390. Proceedings of Tashkent Conference on Peaceful Uses of Atomic Energy, v. 2 [with bibliographies]. [July 1964.] cover title, [10]+593 p. il. 4° (Translation series.) Translated from publication of Publishing House of Academy of Sciences Uzbek SSR, Tashkent, 1960.] Φ Paper, \$7.00.

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## AEC research and development reports—Continued

- 19226 AEC-tr-6391. Structure of nuclei above mass number 40, proceedings of Conference on Structure of Low-lying State, held at Department of Nuclear Physics, Japan Atomic Energy Research Institute, July 4-5, 1961 [with lists of references]. [July 1964.] cover title, [1]+ii+352 p. il. 4° (Translation series.) [Translated from Japanese report, JAERI-1020.]  $\Phi$  Paper, \$4.50.
- 19227 AEC-tr-6396. Plasma physics and problems of controlled thermonuclear synthesis, reports of 1st conference on Plasma Physics and Problem of Controlled Thermonuclear Reactions, Kharkov, June 25-July 2, 1959 [with bibliographies]. [July 1964.] cover title, [1]+v+197 p. il. 4° (Translation series.) [Translated from publication of Publishing House of Academy of Sciences of Ukrainian, SSR, Kiev, 1962.]  $\Phi$  Paper, \$3.00.
- 19228 AEC-tr-6399. Radioisotopic methods for automatic control, reports of All-Union Conference on Applications of Radioisotopes in Measuring Techniques and Instruments, June 1961, [v. 2, with bibliographies]. [July 1964.] cover title, [1]+a-c+285 p. il. 4° (Translation series.) [Translated from publication of Publishing House of Academy of Sciences of Kirgizskoi, SSR, Frunze, 1962.]  $\Phi$  Paper, \$3.50.
- 19229 AEC-tr-6421. Chemistry of uranium and transuranium elements [with list of literature]; by V. M. Vdovenko. [Sept. 1964.] cover title, [1]+734 p. il. 4° (Translation series.) [Translated from publication of Publishing House of Academy of Sciences, SSSR, Moscow, Leningrad, 1960.]  $\Phi$  Paper, \$7.50.
- 19230 APDA-160. Design and economic evaluation of mobile blankets for fast reactors [with list of references]; by A. E. Klickman [and others]. Mar. 10, 1964. cover title, 48 p. il. 4° (Atomic Power Development Associates, Inc., Detroit, Mich.)  $\Phi$  Paper, \$1.25.
- 19231 COO-712-73. Neutron-moderation moisture meters, analysis of application to coal and soil, final report [with bibliographies]; by R. A. Semmler. Sept. 1963. cover title, ix+129 p. il. 4° (Laboratories for Applied Sciences, University of Chicago, Chicago, Ill.)  $\Phi$  Paper, \$2.50.
- 19232 GEAF-4462. Strain-cycle phenomena in thin-wall tubing [with list of references]; by Myron B. Reynolds. Jan. 30, 1964. [2]+iv+25 p. il. 4° (Vallecitos Atomic Laboratory, General Electric Company, San Jose, Calif.)  $\Phi$  Paper, 50c.
- 19233 IITRI-578P19-13. Alloying characteristics of rare earth elements with transition elements, final report, Mar. 15, 1962-Apr. 30, 1964 [with list of references]; by Rodney P. Elliott. Apr. 30, 1964. [2]+vi+29 p. il. 4° (Illinois Institute of Technology, IIT Research Institute, Chicago, Ill.)  $\Phi$  Paper, 75c.
- 19234 MITNE-46. Heavy water lattice project annual report [with lists of references]; by Irving Kaplan, D. D. Lanning, T. J. Thompson. Sept. 30, 1963. cover title, x+122+[6] p. il. 4° (Department of Nuclear Engineering, Massachusetts Institute of Technology, Cambridge, Mass.)  $\Phi$  Paper, \$2.50.
- 19235 NYO-2757-3. Development of krypton-85 as universal tracer, continuation of phase 3, areas of application, report covering contract period, Nov. 1, 1962-Oct. 31, 1963 [with list of references]; by David Chleck, Richard Maehl, Orlando Cucchiara. Nov. 1, 1963. cover title, vii+93 p. il. 4° (Parametrics Inc., Waltham, Mass.) [Page 93 printed on inside of back cover.]  $\Phi$  Paper, \$2.25.
- 19236 NYO-2761. Atlas of current roentgenographic findings in New Jersey radium cases. Oct. 1963. [2]+vi+4+[1] p. 61 p. of pl. large 8° (Radium Research Project, New Jersey State State Department of Health, West Orange, N.J.)  $\Phi$  Paper, \$2.00.
- 19237 NYO-3194-1. Test and verification of heterogeneous reactor calculation methods, annual report Apr. 1963-Jan. 1964 [with list of references]; by Carl N. Klahr, Jerome Heitner, Norman Stein. Aug. 1964. cover title, vi+158 p. il. 4° (Fundamental Methods Associates, Inc., New York, N.Y.)  $\Phi$  Paper, \$2.75.
- 19238 NYO-9940. Frequency response of nucleate pool boiling heat transfer [with list of references cited]; by Robert C. Lummis. May 18, 1964. cover title, x+173 p. il. 4° (Engineering Research Laboratories, Columbia University, New York.)  $\Phi$  Paper, \$2.75.
- 19239 NYO-10216. Development of vibratory compaction techniques for radioactive source fabrication; by Gerald R. Armstrong, William A. Greenhow. Dec. 1962. cover title, vi+65 p. il. 4° (General Scientific Corporation, Washington, D.C.)  $\Phi$  Paper, \$1.75.

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- 19240 NYO-10220. Radiological mechanisms for geophysical research, annual report; by Leonard L. Bird [and others]. Oct. 31, 1963. cover title, vi+61 p. il. 4° (Parametrics Inc., Waltham, Mass.) † Paper, \$1.75, Clearinghouse for Federal Scientific and Technical Information, Dept. of Commerce, Springfield, Va.
- 19241 NYO-10693. Literature survey of nucleon 2 nucleon reaction cross sections at energies above 100 mev [with list of literature cited]; by Albert A. Caretto, jr. July 1964. cover title, iv+84 p. 4° (Carnegie Institute of Technology, Pittsburgh, Pa.) † Paper, \$2.00.
- 19242 ORO-624. Semi-annual progress report on radiobiology, July 1-Dec. 31, 1963. Aug. 1964. cover title, vi+127 p. il. 4° (Agricultural Research Laboratory, AEC, University of Tennessee, Oak Ridge, Tenn.) † Paper, \$2.50.
- 19243 SAN-1023. Application of radiochemistry techniques in food processing research, radioisotopic tracer techniques in evaluation and improvement of industry practices for removal of pesticide residues from foods, annual progress report 3 [with bibliography]; by Walter A. Mercer. Feb. 15, 1964. cover title, xv+94 p. il. 4° (Washington Research Laboratory, National Canners Association, Washington, D.C.) † Paper, \$2.25.
- 19244 TID-3311 (suppl. 1). Radioactive waste processing and disposal, annotated bibliography of selected literature; compiled by Theodore F. Davis, Hugh E. Voress. June 1964. ix+184+[2] p. 4° † Paper, \$2.75.
- 19245 TID-3312 (suppl. 1). Reprocessing of irradiated fission reactor fuel and breeding materials, annotated bibliography of selected literature; compiled by James M. Jacobs. June 1964. [1]+iv+201 p. il. 4° † Paper, \$3.00.
- 19246 TID-3313. U.S. power reactors, bibliography of selected literature; compiled by Richard J. Smith, Henry D. Raleigh. Mar. 1964. [1]+ii+226+[1] p. il. 4° † Paper, \$3.00.
- 19247 TID-3724. Bibliographies of atomic energy literature issued or in progress during period, June-July 1964. [1964.] cover title, [1]+16+[1] p. 4° †
- 19248 TID-6613 (supp. 5). Radioisotopes in world industry, abstracts of selected foreign literature, references selected by Science and Technology Division, Library of Congress, under contractual arrangements with Division of Isotopes Development, Atomic Energy Commission; arranged and indexed by Division of Technical Information Extension, Atomic Energy Commission. Aug. 1964. vi+123 p. 4° † \$2.50, Clearinghouse for Federal Scientific and Technical Information, National Bureau of Standards, Department of Commerce, Springfield, Va.
- 19249 TID-7029. Selected measurement methods [for plutonium and uranium, revised page]. [1964.] p. 103, 4° † ● Item 1051-C
- 19250 TID-19585. Application of radiation-pasteurization processes to Pacific crab and flounder, final summary for period Nov. 1962-Nov. 1963 [with list of literature cited]; by D. Miyauchi [and others]. Nov. 1963. cover title, vi+144 p. il. 4° (Technological Laboratory, Bureau of Commercial Fisheries, Seattle, Wash.) † Paper, \$2.75.
- 19251 TID-19586. Effects of ionizing radiation on lipids of fish, final summary for period Nov. 1962-Nov. 1963 [with list of references]; by Virginia F. Stout, Darryl D. DesMarteau, Edward H. Gruger, jr. Nov. 1963. [2]+vii+18 p. il. 4° (Technological Laboratory, Fish and Wildlife Service, Seattle, Wash.) † Paper, 50c.
- 19252 TID-20426. NS Savannah ventilation system filter testing, status report [with bibliography]; by R. E. Grossman, W. G. Thomson. Nov. 1963. cover title, iii+19 p. il. 4° (Todd Shipyards, Babcock & Wilcox Company, Galveston, Tex.) † Paper, 50c.
- 19253 TID-20508. Development of isotope techniques for relocation of land monuments, final report [with list of references]; by Robert P. Peterson [and others]. Sept. 1963. cover title, v+40 p. il. 4° (Entech Corporation, Des Plaines, Ill.) † Paper, \$1.00.
- 19254 TID-20643. Use of radioisotopes as source of X-rays to develop Rayleigh scattering methods for analysis of high Z atoms in low Z media, final report; by Joris M. Brinkerhoff. July 1963. [3]+26 p. il. 4° (Division of Laboratory for Electronics, Tracerlab, Inc., Waltham, Mass.) † Paper, 75c.
- 19255 TID-20893. Standard nuclear instrument modules, adopted by AEC Committee on Nuclear Instrument Modules, July 1964; prepared by Louis Costrell, National Bureau of Standards. [1964.] [1]+i+12 p. 4° † Paper, 50c.

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## AEC research and development reports—Continued

- 19256 WT-1869. Operations Nougat and Storax, in situ stresses in rock, Rainier Mesa, Nevada test site [with list of references]. Sept. 11, 1964. cover title, [1]+v-viii+95 p. il. 4° (Applied Physics Laboratory, Bureau of Mines, College Park, Md.)  $\Phi$  Paper, \$2.25.
- 19257 Atomic energy and medical sciences, remarks by Charles L. Dunham, director, Division of Biology and Medicine, Atomic Energy Commission, at Frueauff Foundation Radiation Center, Danville, Pa., Sept. 26, 1964. [1964.] 15 p. 4° (S-21-64.)  $\dagger$  Y 3.At 7: 34 D 92/3
- 19258 Binding force of atom, remarks by Glenn T. Seaborg, chairman, Atomic Energy Commission at dedication of Nuclear Sciences Building, University of Florida, Gainesville, Fla., Oct. 19, 1964. [1964.] 7 p. 4° (S-22-64.)  $\dagger$  Y 3.At 7: 34 Se 1/66
- 19259 Careers for college graduate through Atomic Energy Commission's internship and training programs. [1964.] 8 p. narrow 8°  $\dagger$   $\bullet$  Item 1051 Y 3. At 7: 2 C 18/3/964
- 19260 [This entry number not used.]
- 19261 Our heritage of elements, Keynote address delivered by Glenn T. Seaborg, chairman, Atomic Energy Commission, at 1964 American Society for Metals, Metals/Materials Congress, Philadelphia, Pa., Oct. 19, 1964. [1964.] 15 p. 4° (S-25-64.)  $\dagger$  Y 3.At 7: 34 Se 1/68
- 19262 Outlook for uranium mining industry, remarks by Rafford L. Faulkner, Director, Division of Raw Materials, Atomic Energy Commission, at annual Mining Convention of American Mining Congress, Portland, Oreg., Sept. 16, 1964. [1964.] 7+[4] p. il. 4° (S-18-64.)  $\dagger$  Y 3.At 7: 34 F 27/3
- 19263 Project Dribble, Department of Defense, [Vela Uniform Program]. Aug. 1, 1964. cover title, 23 leaves, 4° (Office of Information, Nevada Operations Office.) [Reprinted Aug. 1964 by Public Health Service, Health, Education, and Welfare Dept.]  $\dagger$  Y 3.At 7: 2 D 83
- 19264 Remarks by James T. Ramey, Commissioner, Atomic Energy Commission at site dedication ceremonies, San Onofre nuclear generating station, San Clemente, Calif., Oct. 9, 1964. [1964.] 3 p. 4° (S-23-64.)  $\dagger$  Y 3.At 7: 34 R 14/7
- 19265 Statement by Glenn T. Seaborg, United States representative, at news conference of U.S. delegation to 3d United Nations International Conference on Peaceful Uses of Atomic Energy, Geneva, Switzerland, Aug. 29, 1964. [1964.] 7 p. 4° (S-14-64.)  $\dagger$  Y 3.At 7: 34 Se 1/63
- 19266 States and AEC, growing partnership, remarks by Glenn T. Seaborg, chairman, Atomic Energy Commission, at annual meeting of Southern Governors' Conference, San Antonio, Tex., Oct. 12, 1964. [1964.] 9 p. 4° (S-24-64.)  $\dagger$  Y 3.At 7: 34 Se 1/67
- 19267 Summary of 3d United Nations International Conference on Peaceful Uses of Atomic Energy, by Glenn T. Seaborg, Geneva, Switzerland, Sept. 8, 1964. [1964.] [1]+26+[2] p. 4° (S-20-64.) [Includes Note to editors.]  $\dagger$  Y 3.At: 34 Se 1/65
- 19268 Telephone directory, USAEC Headquarters, Germantown, Md. Sept. 1964. cover title, v+50+[4] p. il. 4° [Text on p. 2 of cover.] \* Paper, 40c. Y 3.At 7: 55/964

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Understanding the atom series. (Division of Technical information.)  
 † USAEC, P.O. Box 62, Oak Ridge, Tenn., 37831

- 19269 Whole body counters [with list of suggested references; by John H. Woodburn and Frederick W. Lengmann]. [Aug. 1964.] [2]+32 p. il. [Text on p. 2 and 3 of cover.]  
 L.C. card 64-62808 Y 3.At 7 : 54 B 63

**AVIATION MEDICAL SERVICE, Federal Aviation Agency**  
**Washington, D.C. 20553**

- 19270 Guide for aviation medical examiners. Sept. 1964. vi+87 p. il. 4° (Office of Aviation Medicine.) [Issued in loose-leaf form.] † ● Item 431-E-2  
 L.C. card 62-62433 FAA 7.9: Ex 1/964

**BONNEVILLE POWER ADMINISTRATION, Interior Dept.**  
**Portland, Oreg. 97208**

- 19271 Bonneville Power Administration, bibliography (1930-63); by Douglas Norwood and James Burghardt. July 1964. cover title, [2]+107 p. 4° (Library.) †  
 L.C. card 64-62667 I 44.11: B 64  
 19272 Generation and sales statistics, fiscal year 1964. [Aug. 10, 1964.] 6 p. il. 4° [Pages 4-6 issued as leaves.] †  
 L.C. card 54-61687 I 44.8: 964/1

**BUDGET BUREAU, Executive Office of the President**  
**Washington, D.C. 20503**

- 19273 Measuring productivity of Federal government organizations. 1964. [3]+370 p. il. \* Paper, \$1.25. ● Item 854  
 L.C. card 64-62955 PrEx 2.2: P 94

**BUSINESS AND DEFENSE SERVICES ADMINISTRATION,**  
**Commerce Dept. Washington, D.C. 20230**

- 19274 Address by George Donat, administrator, Business and Defense Services Administration, Department of Commerce, prepared for delivery at Central Tennessee Conference on Industrial Modernization, Nashville, Tenn., Oct. 8, 1964. [1964.] 5 p. 4° † C 41.15: D 71/5  
 19275 Address by George Donat, administrator, Business and Defense Services Administration, Department of Commerce, prepared for delivery at Indiana State conference on industrial modernization, Indianapolis, Ind., Sept. 30, 1964. [1964.] 7 p. 4° † C 41.15: D 71/3  
 19276 Address by George Donat, administrator, Business and Defense Services Administration, Department of Commerce, prepared for delivery at Western Michigan Industrial Modernization Conference, Grand Rapids, Mich., Oct. 1, 1964. [1964.] 6 p. 4° † C 41.15: D 71/4  
 19277 Aids to modernization, how to succeed by really trying. [1964.] [2]+38 p. 4° †  
 L.C. card 64-62977 C 41.2: M 72  
 19278 Excerpts of remarks of George Donat, administrator, Business and Defense Services Administration, Department of Commerce, at Hudson-Mohawk Valleys Conference on Industrial Modernization, Albany, N.Y., Oct. 15, 1964. [1964.] 2 p. 4° † C 41.15: D 71/6  
 19279 Market for selected photographic products in United Kingdom and France; by Larry C. Cozart and Donald S. Parris]. [1964.] cover title, iv+27 p. (BDSA export potential study.) \* Paper, 15c. ● Item 215-S  
 L.C. card 64-62887 C 41.107: Un3k/2

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- 19280 Water service-pipe requirements by water utilities, 1950-80 [with list of sources of information; prepared by K. L. Kollar and William G. Young-wirth]. Sept. 1964. 8 p. il. 4° \* Paper, 10c. ● Item 215  
C 41.2: W 29/8

## CANAL ZONE GOVERNMENT Washington, D.C. 20004

- 19281 Panama Canal Company, Canal Zone Government, annual report, fiscal year 1963. [1964.] cover title, viii+142 p. il. [Also issued as H. doc. 361, 88th Cong., 2d sess.] † ● Item 360  
L.C. card 53-60088  
CZ 1.1: 963

## CENSUS BUREAU, Commerce Dept. Suitland, Md. 20235

- 19282 Announcement and order form, census of governments, 1962, v. 4, Governmental finances, no. 4, Compendium of Government finances, announcement CG-7. [1964.] [5] p. narrow 8° ([Form BC596 (9-9-64).]) †  
C 3.145/3: 962/7
- 19283 — v. 6, Topical studies, no. 4, Historical statistics on governmental finances and employment, CG-8. [1964.] [5] p. narrow 8° ([Form BC 595 (9-9-64).]) †  
C 3.145/3: 962/8
- 19284 Announcement and order form, 1963 census of transportation, truck inventory and use survey, advance area reports, series TC63(A)-T. [Sept. 3, 1964.] [2] p. narrow f°, folded into oblong 48° size. ([Form BC-590 (TC-502).]) †  
C 3.233/2: TC 63(A)-T/ann.
- Census of governments, 1962. [Prepared under supervision of Allen D. Manvel, chief, Governments Division.]
- 19285 v. 2. Taxable property values, errata notice. Aug. 1964. 3 p.+ [28] leaves, 4° [Issued in loose-leaf form.] † ● Item 148-A  
C 3.145/4: 962/v.2/errata
- v. 4, Governmental finances no. [Prepared under supervision of Allen D. Manvel, chief, Governments Division.]
- 19286 4. Compendium of government finances; [by Bernice D. Dowling and Helen D. Files]. [1964.] v+616 p. il. 4° [Preliminary errata notice, 1 p., issued also.] \* Paper, \$3.75. ● Item 148-A  
L.C. card A63-7123  
C 3.145/4: 962/v. 4/no. 4
- v. 6, Topical studies, no. [Prepared under supervision of Allen D. Manvel, chief, Governments Division.]
- 19287 4. Historical statistics on governmental finances and employment; [prepared by Bernice D. Dowling and Helen D. Files]. [1964.] iv+128 p. il. 4° [Errata notice, 5 p., was issued also.] \* Paper, 75c. ● Item 148-A  
L.C. card A63-7123  
C 3.145/4: 962/v. 6/no. 4

### City finances, 1963, G-CF63.

- 19288 1. Summary of city government finances in 1963. Oct. 1964. 12 p. 4° (Governments Division.) † Paper, 10c.  
C 3.142: 963/1
- 19289 Congressional district atlas (districts of 89th Congress); prepared under direction of William T. Fay, chief, Geography Division. [1964.] vi+104 p. il. 4° [Text on p. 2 of cover. Issued with perforations.] \* Paper, 65c. ● Item 140-B  
L.C. card A64-7407  
C 3.62/5: 964
- 19290 Current industrial reports: Aluminum ingot and mill products, summary for 1963. Sept. 14, 1964. 5 p. 4° (Series M33-2(63)-13.) [Prepared in cooperation with Business and Defense Services Administration.] † Paper, 15c.  
C 3.158: M 33-2(63)-13
- 19291 — Change sheet, wiring devices and supplies, 1963. Oct. 8, 1964. 1 p. 4° (Series M36K(63)-1.) †  
C 3.158: M 36 K(63)-1/ch.

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- 19292 — Industrial gases, 1963. Oct. 8, 1964. 6 p. 4° (Series M28A(63)-13  
supp. 2.) † Paper, 15c. C 3.158: M 28 A(63)-13/supp.2
- 19293 — Lumber production and mill stocks, 1963. Oct. 16, 1964. [2]+9 p.  
4° (Series M24T(63)-1.) † Paper, 25c. C 3.158: M 24 T(63)-1
- 19294 — Metal cans, summary for 1963. Sept. 23, 1964. 7 p. 4° (Series  
M34D(63)-13.) † Paper, 25c. C 3.158: M 34 D(63)-13
- 19295 — Narrow fabrics, 1963. Oct. 8, 1964. 7 p. 4° (Series M 22G(63)-1.)  
† Paper, 25c. C 3.158: M 22 G(63)-1
- 19296 — Plumbing fixtures, summary for 1963. Oct. 14, 1964. 5 p. 4° (Series  
M34E(63)-5.) † Paper, 25c. C 3.158: M 34 E(63)-5
- 19297 — Pumps and compressors. 1963. Oct. 14, 1964. 5 p. 4° (Series  
M35P(63)-1.) † Paper, 25c. C 3.158: M 35 P(63)-1
- Current population reports: Series P-20. Population characteristics.  
\* Paper, \$4.00 (including series P-20, P-23, P-25, P-27, P-28, summaries  
P-60 and P-65 for one year), \$1.25 additional for foreign mailing; single  
copy, each 15c. ● Item 142-C
- 19298 132. Educational change in generation, Mar. 1962. Sept. 22, 1964. 18 p. 4°  
C 3.186: P-20/132
- Series P-25, Population estimates. \* Paper, \$4.00 (including Series  
P-20, P-23, P-25, P-27, P-28 summaries, P-60, and P-65 for one year),  
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- 19299 290. Estimates of population of United States, Jan. 1, 1950-Aug. 1, 1964. Sept.  
15, 1964. 2 p. 4°
- 19300 291. Estimates of population of selected standard metropolitan statistical areas,  
July 1, 1963. Sept. 28, 1964. 6 p. 4°
- 19301 292. Estimates of population of United States, Jan. 1, 1950-Sept. 1, 1964.  
Oct. 16, 1964. 2 p. 4°
- 19302 293. Estimates of population of United States, by age, color, and sex, July 1,  
1964. Oct. 21, 1964. 15 p. 4°
- Series P-28, Special censuses. C 3.186: P-28/(nos.)
- 19303 1375. Special census of Little Rock, Ark., June 8, 1964. Sept. 14, 1964. 16 p.  
il. 4° † Paper, 25c.
- 19304 1376. Special census of Monroe County, N.Y., Apr. 1, 1964. Oct. 13, 1964. 84+  
[2] p. il. 4° † Paper, \$1.00.
- Series P-60, Consumer income. \* Paper, \$4.00 (including Series  
P-20, P-23, P-25, P-27, P-28 summaries, P-60, and P-65 for one year);  
\$1.25 additional for foreign mailing; single copy, each 15c. ● Item  
142-C
- 19305 43. Income of families and persons in United States, 1963. Sept. 29, 1964.  
cover title, ii+50 p. il. 4° C 3.186: P-60/43
- Enterprise statistics, 195: Series ES 3. [Prepared under direction of  
Murray D. Dessel, Coordinator, Enterprise Statistics, Economic Research  
and Analysis Division.] ● Item 142-B
- 19306 3. Part 3, Link of census establishment and IRS corporation data. [1964.]  
vi+1-273 p.+275-289 leaves, il. 4° [Based on 1958 censuses of business,  
manufactures, and mineral industries and Internal Revenue Service Sta-  
tistics of income, 1958-59.] \* Paper, \$2.75.  
L.C. card A 63-7169 C 3.230:3
- Quarterly tax reports G-TR64 (series).
- 19307 2. Quarterly summary of State and local tax revenue, Apr.-June 1964. Sept.  
1964. 7 p. 4° (Governments Division.) † Paper, 10c. C 3.145/6:964/2
- U.S. census of population, 1960: Selected area reports, final report PC  
(3) (series). [Prepared under supervision of Howard G. Brunsman,  
chief, Population Division.]
- 19308 pt. 1C. Americans overseas, ethnic origin, education, occupation, and other social  
and economic data for Americans living abroad in 1960. [1964.]  
xix+132 p. il. 4° \* Paper, \$1.25. ● Item 159  
L.C. card A61-9570 C 3.223/10:960/v.3/pt.1C

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## CHILDREN'S BUREAU, Health, Education, and Welfare Dept.

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- 19309 Histidinemia; prepared by Jane S. Lin-Fu. Sept. 1964. 1 p. 4° †  
FS 14.102: H 62
- 19310 Maple syrup urine disease [summary of information]; prepared by Jane S. Lin-Fu. Sept. 1964. 2 p. 4° †  
FS 14.102: M 32
- Publications. ● Item 453 FS 14.111: (nos.)
- 19311 412. Day care for other peoples children in your home. [1964.] cover title,  
[1]+17 p. il. 12° \* Paper, 15c.  
L.C. card HEW 64-128
- 19312 424. Facts for teenagers: Smoking, health, and you. [1964.] cover title,  
[3]+22 p. narrow 8° \* Paper, 15c.  
L.C. card HEW 64-119
- 19313 427. Health of children of school age; [prepared by Arthur Lesser]. 1964. [4]  
+31 p. il. 4° \* Paper, 25c.  
L.C. card HEW 64-120
- 19314 School and unmarried mothers [with bibliography; by] Jerry L. Kelley.  
[1964.] p. 60-64, il. 4° [From Children, v. 10, no. 2, Mar.-Apr. 1963.] †  
FS 14.109/a: Sch 65
- 19315 Some facts and observations about illegitimacy; [by] Hannah M. Adams  
[and] Ursula M. Gallagher. [1964.] p. 43-48, 4° [From Children,  
v. 10, no. 2, Mar.-Apr. 1963.] † FS 14.109/a: Il 6
- 19316 Some highlights from National Conference on Homemaker Services indi-  
cate broadened horizons of homemaker services; [by] Maud Morlock.  
[1964.] [5] p. il. 4° [Reprinted from Children, July-Aug. 1964, v. 11,  
no. 4.] † FS 14.109/a: H 752

## CIVIL AERONAUTICS BOARD

Washington, D.C. 20428

- 19317 Extemporaneous remarks by Edward J. Driscoll, Executive Director, Civil  
Aeronautics Board, before 5th graduating class of National Aircraft  
Accident Investigation School, Oklahoma City, Okla., Oct. 20, 1964.  
[1964.] 2 p. 4° † C 31.215: D 83
- 19318 Regulations of Civil Aeronautics Board [as of Nov. 1, 1963, new and  
revised pages]; Sept. 21, 1964. [1964.] [103] p. 4° [Includes trans-  
mittal sheet 10. Issued in loose-leaf form.] \* Paper, \$4.00 (including  
basic book and supplementary service for an indefinite period); \$1.00  
additional for foreign mailing. ● Item 186 C 31.206/7: 963/trans.10

## CIVIL DEFENSE OFFICE (Army), Defense Dept.

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- 19319 Federal civil defense guide: pt. C, chap. 8, app. 1, sign-posting instruc-  
tions. Sept. 1964. 2 p. 4° [Issued in loose-leaf form.] † ● Item  
320-B-3 D 13.8/9: pt.C/chap.8/app.1
- 19320 — pt. D, chap. 2, provisioning shelters. [1964.] 4 p. 4° [Issued in  
loose-leaf form.] † ● Item 320-B-3 D 13.8/9: pt.D/chap.2
- 19321 — pt. E, chap. 4, app. 1, Emergency broadcast system. Sept. 1964. [1]  
+2 p. 4° [Issued in loose-leaf form.] † ● Item 320-B-3  
D 13.8/9: pt.E/chap.4/app.1
- 19322 — pt. E, chap. 13, Welfare. Sept. 1964. 4 p. 4° [Issued with perfora-  
tions.] † ● Item 320-B-3 D 13.8/9: pt.E/chap.13
- 19323 — pt. E, chap. 15, Housing and community facilities. Aug. 1964. 4 p. 4°  
[Issued in loose-leaf form.] † ● Item 320-B-3  
D 13.8/9: pt.E/chap.15

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- 19324 — pt. F, chap. 1, Training. Sept. 1964. 4 p. 4° [Issued in loose-leaf form.] † ● Item 320-B-3 D 13.8/9: pt.F/chap.1
- 19325 — pt. F, chap. 5, app. 2, Federal contributions for civil defense personnel and administrative expenses, Change 2. Sept. 1964. [15] p. 4° [Issued in loose-leaf form.] † ● Item 320-B-3 D 13.8/9: pt.F/chap.5/app.2/ch.2
- 19326 National and State civil defense policy resolutions of American Federation of Labor, Congress of Industrial Organizations. [1964.] [1]+ii+33 p. 4° (Labor Liaison Office.) † ● Item 857-D-2 D 13.2: Am 3  
L.C. card 64-62927

## CIVIL SERVICE COMMISSION Washington, D.C. 20415

- 19327 Amendment to announcement 182-B, bookbinder, (\$3.86 an hour). Sept. 29, 1964. 1 p. oblong 48° [Amends issue 161 of AN 2279.] † CS 1.26: 959/182-B/amdt.-6
- 19328 Career opportunities for safety officers in Department of Army and other Federal agencies; salaries, grade GS-9 to GS-12, \$7,220-\$10,250, announcement 326 B. Apr. 14, 1964, reissued Nov. 3, 1964. [1964.] 4 p. 4° † ● Item 292 CS 1.26: 964/326B/rev.
- 19329 Current Federal examination announcements, AN 2279, issue 162, Nov.-Dec. 1964. [1964.] [2] p. f°, folded into narrow 8° size. † ● Item 292 CS 1.28: 2279/162
- 19330 — AN 2279, supp. B to issue 161, Sept.-Oct. 1964. [1964.] 1 p. oblong 48° † ● Item 292 CS 1.28: 2279/161/supp. B
- 19331 — AN 2279, supp. C to issue 161, Sept.-Oct. 1964. [1964.] 1 p. oblong 24° † ● Item 292 CS 1.28: 2279/161/supp. C
- 19332 — AN 2279 supp. D to issue 161, Sept.-Oct. [1964]. [1964.] 1 p. oblong 24° † ● Item 292 CS 1.28: 2279/161/supp. D
- 19333 Directory of ADP training, services and sources of information, 1964-65. [1964.] vi+45 p. (Office of Career Development.) † ● Item 296-A L.C. card 64-62924 CS 1.65/2: 964-65
- 19334 Fishery biologist and wildlife biologist, amendment to announcement 285-B. Sept. 29, 1964. [1964.] 1 p. oblong 24° † CS 1.26: 962/285B/amdt.
- 19335 Local and regional civil service examinations offering best job opportunities, AN 2280 [issue 110]; Nov.-Dec. 1964. [1964.] 2 p. oblong f°, folded into narrow 8° size † ● Item 292 CS 1.28: 2280/110
- 19336 Qualification standards for wage board positions, handbook X-118C. June 1964. cover title, [33] p. 4° [Issued in loose-leaf form.] \* Paper, \$2.50 (including basic handbook and revised pages issued quarterly for an indefinite period); 75c. additional for foreign mailing. ● Item 290-A L.C. card 64-62979 CS 1.45: X-118C
- 19337 Summer employment for juniors in veterinary medicine, veterinarian trainee, \$6,050 a year (grade GS-7) positions available in Agricultural Research Service, Department of Agriculture at locations throughout United States, apply to Executive Secretary, Central Board of Civil Service Examiners, Department of Agriculture, Agricultural Research Service Unit, Federal Central Building, Hyattsville, Md., 20781, announcement 344B. Oct. 6, 1964. 3 p. 4° [Closing date Jan. 12, 1965.] † ● Item 292 CS 1.26: 964/344B

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# GOVERNMENT PUBLICATIONS

- 19338 United States Civil Service Commission announces examination for engineering and science trainee for vacation work-study positions in various Federal agencies in Washington, D.C. area, occupational fields, architecture, cartography, chemistry, engineering, mathematics, oceanography, physics, grade GS-3-GS-4, \$77-\$86 a week, apply to United States Civil Service Commission, Washington, D.C., 20415, announcement no. 79 local. Oct. 27, 1964. 4 p. 4° [Closing date Feb. 18, 1965.] † ● Item 292 CS 1.26/4: 964/79
- 19339 United States Civil Service Commission announces examination for geologists, for duty with Department of Interior, Geological Survey, Bureau of Mines, Bureau of Land Management, and other Federal agencies, \$5,495 and \$6,650 a year (grades GS-5 and GS-7), announcement 342B. Oct. 1, 1964. 4 p. 4° [Closing date Dec. 1, 1964, date of written test Jan. 4, 1965.] † ● Item 292 CS 1.26: 964/342B
- 19340 United States Civil Service Commission announces examination for meteorologist with Weather Bureau, Department of Commerce, and other agencies throughout United States, salaries, GS-5 to GS-15, \$5,990-\$16,460, apply to Executive Secretary, Board of Civil Service Examiners, Weather Bureau, Washington, D.C., 20235, announcement 346B. Oct. 27, 1964. 6 p. 4° [No closing date.] † ● Item 292 CS 1.26: 964/346B

## COAST AND GEODETIC SURVEY, Commerce Dept. Washington, D.C. 20230

- Magnetograms and hourly values MHV (series). [For official distribution.] ‡
- 19341 Ho61. Honolulu, Hawaii, 1961 [with list of references]. 1964. [2]+148 p. il. L.C. card 54-61086 C 4.40/2: Ho61
- 19342 Tidal current tables, Atlantic Coast of North America, 1965. [1964.] 191 p. il. 6 pl. [Includes list of publications relating to tides and tidal currents.] † Paper, \$2.00. ● Item 190 C 4.22: 965  
L.C. card 7-35329

## COAST GUARD, Treasury Dept. Washington, D.C. 20226

- 19343 Aids to navigation manual, app. B. 1964. cover title, iii+12 p. il. 4 pl. 4° (CG-222.) [Issued with perforations.] ‡ ● Item 934-A T 47.8/3: N 22/app. B  
L.C. card 64-62666
- 19344 Light list: v. 3, Pacific Coast and Pacific Islands, 11th, 12th, 13th, 14th, and 17th Coast Guard districts, July 13, 1964 (including N.M. 24 of 1964). 1964. xxiii+289+14 p. il. map. 4° (CG-162.) [Contains list of lights, fog signals, buoys, daybeacons, lightships, radiobeacons, and loran stations. Map and edge index, including how to use, on p. 2 and 4 of cover.] \* Paper, \$2.00. ● Item 940 T 47.52: v.3/964  
L.C. card 14-30372
- 19345 Miscellaneous electrical equipment list. June 1, 1964. viii+69 p. 4° (CG-293.) [Issued with perforations. Replaces June 1, 1962 edition.] † ● Item 933-A T 47.51: El 2/964  
L.C. card 64-62930

## COMMERCE DEPARTMENT Washington, D.C. 20230

NOTE.—Requests to the Commerce Department for publications should include the Comm—DC—number if given in the entry.

- 19346 Address by Eugene M. Braderman, Deputy Assistant Secretary of Commerce for International Commerce and director, Bureau of International Commerce, prepared for delivery before Aerospace Industries Association Export Committee, San Francisco, Calif., Oct. 6, 1964. [1964.] 7 p. 4° (Comm-DC 20205.) † C 1.18· B 72/5

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‡Official Use. Not Available

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- 19347 Address by Secretary of Commerce Luther H. Hodges, prepared for delivery at 4th annual Export Expansion Conference, Beaumont, Tex., Oct. 12, 1964. [1964.] 7 p. 4° (Comm-DC-20218.) † C 1.18: H 66/190
- 19348 Address by Secretary of Commerce Luther H. Hodges prepared for delivery at breakfast with Atlanta businessmen, Atlanta, Ga., Oct. 15, 1964. [1964.] 5 p. 4° (Comm-DC-20228.) † C 1.18: H 66/189
- 19349 Address by Secretary of Commerce Luther H. Hodges prepared for delivery at presentation of President's E Award for export excellence to Crutcher-Rolfs-Cummings, Inc., Houston, Tex., Oct. 12, 1964. [1964.] 7 p. 4° (Comm-DC-54118.) † C 1.18: H 66/192
- 19350 Address by Secretary of Commerce Luther H. Hodges prepared for delivery before Life Underwriter Training Council luncheon at 75th annual convention of National Association of Life Underwriters, Cincinnati, Ohio, Sept. 23, 1964. [1964.] 6 p. 4° (Comm-DC-20170.) † C 1.18: H 66/185
- 19351 Address by Secretary of Commerce Luther H. Hodges prepared for delivery to 3d annual symposium sponsored by Northeastern Pennsylvania District Council, United Textile Workers of America, Wilkes-Barre, Pa., Sept. 30, 1964. [1964.] 8 p. 4° (Comm-DC-45357.) † C 1.18: H 66/186
- 19352 Address by Secretary of Commerce Luther H. Hodges prepared for delivery to Jefferson County officials and businessmen, Denver, Colo., Sept. 29, 1964. [1964.] 5 p. 4° (Comm-DC-20191.) † C 1.18: H 66/188
- 19353 Challenges and opportunities in expansion of U.S. exports, address by Roy L. Morgan, director, Office of Field Services, Department of Commerce, at export expansion program, Miami, Fla., Oct. 19, 1964. [1964.] 5 p. 4° [Program sponsored by Miami-Dade Junior College in cooperation with Department of Commerce and South Florida Regional Export Expansion Council.] † C 1.18: M 82/18
- 19354 Economic situation and housing construction outlook for 1965, remarks by Andrew F. Brimmer, Deputy Assistant Secretary of Commerce for Economic Policy Review, prepared for delivery before Construction Market Seminar of American Marketing Association, Chicago, Ill., Sept. 28, 1964. [1964.] 9 p. 4° † C 1.18: B 77/5
- 19355 Great society, address by Secretary of Commerce Luther H. Hodges, prepared for delivery at Founder's Day Ceremonies, University of North Carolina at Greensboro, N.C., Oct. 5, 1964. [1964.] 10 p. 4° (Comm-DC-20214.) † C 1.18: H 66/187
- 19356 Remarks by Assistant Secretary of Commerce Herbert W. Klotz, prepared for delivery at launching of S.S. American Ranger, Chester, Pa., Oct. 19, 1964. [1964.] 6 p. 4° † C 1.18: K 69/3
- 19357 Remarks by Assistant Secretary of Commerce Herbert W. Klotz, prepared for delivery at presentation of President's E Award for export excellence to International Telephone and Telegraph Export Corporation at luncheon, Oct. 1, 1964, New York, N.Y. [1964.] 3 p. 4° (Comm-DC-20203.) † C 1.18: K 69/2
- 19358 Remarks by Lowell K. Bridwell, Deputy Under Secretary of Commerce for Transportation (Operations), prepared for delivery before Indiana Motor Truck Association luncheon, French Lick, Ind., Sept. 18, 1964. [1964.] 7 p. 4° (Comm-DC-2220.) † C 1.18: B 76
- 19359 Remarks by Lowell K. Bridwell, Deputy Under Secretary of Commerce for Transportation (Operations), prepared for delivery before National Security Seminar of Industrial College of Armed Forces, Huntington, W. Va., Sept. 28, 1964. [1964.] 8 p. 4° † C 1.18: B 76/2

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- 19360 Remarks by Roy L. Morgan, director, Office of Field Services, Department of Commerce, prepared for delivery at raising of E flag for excellence in exporting at Jenks Metals Export Inc., plant in Miami, Fla., Sept. 28, 1964. [1964.] 3 p. 4° † C 1.18: M 82/16
- 19361 Remarks by Roy L. Morgan, director, Office of Field Services, Department of Commerce, prepared for delivery at raising of President Johnson's E pennant for exports, at Willson International Ltd., Inc. at Hialeah, Fla., Oct. 19, 1964. [1964.] 5 p. 4° (Comm-DC-54130.) † C 1.18: M 82/17
- 19362 Remarks by Roy L. Morgan, director, Office of Field Services, Department of Commerce, prepared for delivery in presenting President's E Award for excellence in exporting to Smith, Kirkpatrick and Co., Inc., New York City, at ceremonies at meeting of Regional Export Expansion Council at World's Fair grounds, N.Y., Sept. 24, 1964. [1964.] 3 p. 4° † C 1.18: M 82/15
- 19363 Remarks by Secretary of Commerce Luther H. Hodges prepared for delivery to Harvard Club, San Antonio, Tex., Oct. 14, 1964. [1964.] 5 p. 4° (Comm-DC-20221.) † C 1.18: H 66/191
- 19364 Selling around the world, how Commerce helps. [July 1964.] cover title, iv+23 p. il. narrow 8° \* Paper, 15c. ● Item 128 C 1.2: Se 4/964
- 19365 Tax cut and expansion of consumer demand, text of address by Richard H. Holton, Assistant Secretary of Commerce for Economic Affairs, for delivery to Conference on Research Needs in Consumer Economics, sponsored by California Consumer Council in cooperation with University of California Extension Service and Institute of Industrial Relations, Sept. 11, 1964, Berkeley, Calif. [1964.] 8+[7] p. 4° (Comm-DC-20158.) † C 1.18: H 744/13
- 19366 Tight budget in expanding economy, address by Assistant Secretary of Commerce Herbert W. Klotz, prepared for delivery to 7th National Conference of American Production and Inventory Control Society, Atlantic City, N.J., Oct. 8, 1964. [1964.] 13 p. 4° † C 1.18: K 69

**COMMUNITY RELATIONS SERVICE, Commerce Dept.  
Washington, D.C. 20230**

NOTE.—The Community Relations Service was established in the Department of Commerce by Public Law 352, 88th Congress, 2d session, approved July 2, 1964.

- 19367 Text of remarks of LeRoy Collins, Director, Community Relations Service, to National Conference on Christian Social Concerns, Alexandria, Va., Oct. 11, 1964. [1964.] 7 p. 4° † C 50.9: C 69/4

**CONGRESS**

- 19368 Memorial services held in House of Representatives and Senate of United States, together with remarks presented in eulogy of Howard Henry Baker, late representative from Tennessee, 88th Congress, 2d session. 1964. 114+[1] p. 1 pro. † ● Item 1005 Y 7.1: B 173  
L.C. card 64-62869

***Congressional serial set***

NOTE.—At the end of each session of Congress the House and Senate documents and reports are accumulated into bound volumes comprising the Congressional serial set. No catalog entry is made for the volumes of the Serial set since the documents and reports contained therein have been previously listed in the Monthly catalog.

The following bound volumes were sent to depository libraries during the period of this catalog:

House documents:

- 19369 nos. 301-302, 305, 87th Congress, 2d session, Interior Department reports on reclamation projects I [Serial 12463]. ● Item 995-G

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House reports :

- 19370 nos. 2072-2173, with exceptions, 86th Congress, 2d session, House miscellaneous reports on public bills VI [Serial 12248]. ● Item 1007-A  
nos. 1471-2571, with exceptions, 87th Congress, 2d session, Reports of Select Committee on Small Business [Serial 12440]. ● Item 1007-A

Laws

NOTE.—The Federal laws are first published separately and in this form are known as "slip laws". Later, these laws are compiled, edited, indexed, and published in the volumes of the Statutes at large.

Private laws, 88th Congress. † House or Senate Document Rooms, Capitol.

- 19371 328. H.R. 1263, act for relief of Rickert and Laan, Inc. Approved Sept. 14, 1964. 1 p.  
19372 329. S. 584, act for relief of Yih-Ho Pao and his wife, Joanne T. Pao. Approved Sept. 22, 1964. 1 p.  
19373 330. S. 1737, act for relief of Arthur Wendell Bolta. Approved Sept. 24, 1964. 1 p.  
19374 331. S. 1966, act for relief of Glenda Williams. Approved Sept. 24, 1964. 1 p.  
19375 332. S. 1986, act for relief of Hattie Lu. Approved Sept. 24, 1964. 1 p.  
19376 333. S. 1999, act for relief of Francisco Navarro-Paz. Approved Sept. 24, 1964. 1 p.  
19377 334. S. 2205, act for relief of Giuseppe DiCenso. Approved Sept. 24, 1964. 1 p.  
19378 335. S. 2629, act for relief of Czeslaw (Chester) Kaluzny. Approved Sept. 24, 1964. 1 p.  
19379 336. S. 2812, act for relief of Joanne Irene Taylor. Approved Sept. 24, 1964. 1 p.  
19380 337. H.R. 1853, act for relief of Fatti Jean Fulton. Approved Oct. 2, 1964. 1 p.  
19381 338. H.R. 5500, act for relief of John P. Mann. Approved Oct. 2, 1964. 1 p.  
19382 339. H.R. 7788, act for relief of Jack B. Fisher. Approved Oct. 2, 1964. 1 p.  
19383 340. H.R. 8300, act for relief of Gordon W. McGrew. Approved Oct. 2, 1964. 1 p.  
19384 341. H.R. 8596, act for relief of Patrick J. Clyne. Approved Oct. 2, 1964. 1 p.  
19385 342. H.R. 9201, act for relief of Charles H. Glassett, jr. Approved Oct. 2, 1964. 1 p.  
19386 343. H.R. 10294, act for relief of Mrs. Lois Graybill. Approved Oct. 2, 1964. 1 p.  
19387 344. H.R. 10526, act for relief of Marvin S. Kline. Approved Oct. 2, 1964. 1 p.  
19388 345. H.R. 10634, act for relief of Quality Bedding Company. Approved Oct. 2, 1964. 1 p.

Public laws, 88th Congress. ● Item 575

NOTE.—Public laws in slip form in the first prints may be obtained from the Superintendent of Documents, Washington, D.C., 20402, at a subscription price of \$12.00 per session, \$2.00 additional for foreign mailing; single copies vary in price.

- 19389 547. H.R. 439, act to provide for establishment of John Muir National Historic Site in California, and for other purposes. [Approved Aug. 31, 1964.] 2 p. \* Paper, 5c.  
19390 582. S. 524, act to provide for registration of contractors of migrant agricultural workers, and for other purposes. [Approved Sept. 7, 1964.] 6 p. \* Paper, 5c.  
19391 583. S. 1123, act to provide for construction of Lower Teton division of Teton Basin Federal reclamation project, Idaho, and for other purposes. [Approved Sept. 7, 1964.] 2 p. \* Paper, 5c.  
19392 584. S. 692, act to establish Federal agricultural services to Guam, and for other purposes. Approved Sept. 7, 1964. 1 p. \* Paper, 5c.  
19393 585. S. 400, act to establish penalties for misuse of feed made available for relieving distress or preservation and maintenance of foundation herds. [Approved Sept. 11, 1964.] 2 p. \* Paper, 5c.  
19394 586. S. 2905, act to provide for appointment of commissioner general for United States participation in Canadian Universal and International Exhibition, and for other purposes. Approved Sept. 11, 1964. 1 p. \* Paper, 5c.  
19395 587. S. 1365, act to establish Fire Island National Seashore, and for other purposes. [Approved Sept. 11, 1964.] 5 p. \* Paper, 5c.  
19396 588. S. 2082, act to authorize Secretary of Interior to accept transfer of certain lands within Everglades National Park, Dade County, Fla., for administration as part of said park, and for other purposes. Approved Sept. 12, 1964. 1 p. \* Paper, 5c.  
19397 589. S. 277, act to amend Federal crop insurance act, as amended in order to increase number of new counties in which crop insurance may be offered each year. Approved Sept. 12, 1964. 1 p. \* Paper, 5c.  
19398 590. S. 27, act to provide for establishment of Canyonlands National Park in Utah, and for other purposes. [Approved Sept. 12, 1964.] 6 p. \* Paper, 5c.

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‡For Sale by OTS, Commerce Dept.

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# GOVERNMENT PUBLICATIONS

## Public laws, 88th Congress—Continued

- 19399 591. S. 1909, act to amend joint resolution establishing Battle of New Orleans Sesquicentennial Celebration Commission to authorize appropriation to enable Commission to carry out its functions under such joint resolution. Approved Sept. 12, 1964. 1 p. \* Paper, 5c.
- 19400 592. H.R. 1642, act to provide for sale of United States Animal Quarantine Station, Clifton, N.J., to city of Clifton to provide for establishment of a new station, and for other purposes. [Approved Sept. 12, 1964.] 2 p. \* Paper, 5c.
- 19401 593. H.R. 12267, act to provide for notice of change in control of management of insured banks, and for other purposes. [Approved Sept. 12, 1964.] 2 p. \* Paper, 5c.
- 19402 594. S.J. Res. 49, joint resolution authorizing Secretary of Interior to carry out continuing program to reduce nonbeneficial consumptive use of water in Pecos River Basin, in New Mexico and Texas. [Approved Sept. 12, 1964.] 2 p. \* Paper, 5c.
- 19403 595. S. 2995, act to amend sec. 511(h) of Merchant marine act, 1936, as amended, in order to extend time for commitment of construction reserve funds. Approved Sept. 12, 1964. 1 p. \* Paper, 5c.
- 19404 596. H.R. 4786, act for relief of New Mexico. Approved Sept. 15, 1964. 1 p. \* Paper, 5c.
- 19405 597. S. 985, act to protect constitutional rights of certain individuals who are mentally ill, to provide for their care, treatment, and hospitalization, and for other purposes. [Approved Sept. 15, 1964.] 11 p. \* Paper, 10c.
- 19406 598. S. 1186, act to amend act authorizing Crooked River Federal reclamation project to provide for irrigation of additional lands. Approved Sept. 18, 1964. 1 p. \* Paper, 5c.
- 19407 599. S. 2447, act to authorize Secretary of Interior to construct, operate, and maintain Whitestone Coulee unit of Okanogan-Similkameen division, Chief Joseph Dam project, Washington, and for other purposes. [Approved Sept. 18, 1964.] 2 p. \* Paper, 5c.
- 19408 600. S. 2370, act authorizing maintenance of flood and arroyo sediment control dams and related works to facilitate Rio Grande canalization project and authorizing appropriations for that purposes. Approved Sept. 18, 1964. 1 p. \* Paper, 5c.
- 19409 601. H.R. 3396, act to authorize addition of lands to Morristown National Historical Park in New Jersey, and for other purposes. Approved Sept. 18, 1964. 1 p. \* Paper, 5c.
- 19410 602. H.R. 11162, act granting consent of Congress to an amendment to Breaks Interstate Park compact between Virginia and Kentucky. Approved Sept. 18, 1964. 1 p. \* Paper, 5c.
- 19411 603. H.R. 6601, act to authorize Secretary of Agriculture to sell certain land in Grand Junction, Colo., and for other purposes. Approved Sept. 18, 1964. 1 p. \* Paper, 5c.
- 19412 604. H.R. 7096, act to authorize exchange of certain property at Independence National Historical Park, and for other purposes. Approved Sept. 18, 1964. 1 p. \* Paper, 5c.
- 19413 605. H.R. 10809, making appropriations for Departments of Labor, and Health, Education, and Welfare, and related agencies, for fiscal year 1965, and for other purposes. [Approved Sept. 19, 1964.] 24 p. \* Paper, 15c.
- 19414 606. H.R. 8070, act for establishment of a Public Land Law Review Commission to study existing laws and procedures relating to administration of public lands of United States, and for other purposes. [Approved Sept. 19, 1964.] 4 p. \* Paper, 5c.
- 19415 607. H.R. 5159, act to authorize and direct that certain lands exclusively administered by Secretary of Interior be classified in order to provide for their disposal or interim management under principles of multiple use and to produce a sustained yield of products and services, and for other purposes. [Approved Sept. 19, 1964.] 3 p. \* Paper, 5c.
- 19416 608. H.R. 5498, act to provide temporary authority for sale of certain public lands. [Approved Sept. 19, 1964.] 2 p. \* Paper, 5c.
- 19417 609. S. 2701, act to provide for investigation and study to determine site for construction of sea level canal connecting Atlantic and Pacific Oceans. Approved Sept. 22, 1964. 1 p. \* Paper, 5c.
- 19418 610. S. 49, act to provide for recognition by United States of Alaska's 100th anniversary under American flag, and for other purposes. Approved Sept. 24, 1964. 1 p. \* Paper, 5c.
- 19419 611. S. 2049, act to authorize Secretary of Commerce to accept gifts and bequests for purposes of Department of Commerce, and for other purposes. Approved Oct. 2, 1964. 2 p. \* Paper, 5c.
- 19420 612. H.J. Res. 793, Joint resolution authorizing United Spanish War Veterans to erect memorial in District of Columbia or its environs. Approved Oct. 2, 1964. 1 p. \* Paper, 5c.
- 19421 613. H.R. 11626, act to authorize payment of expenses incident to evacuation of dependents of military personnel from Panama and Cyprus. Approved Oct. 2, 1964. 1 p. \* Paper, 5c.
- 19422 614. H.R. 5042, act for relief of certain officers of naval service erroneously in receipt of compensation based upon incorrect computation of service for basic pay. Approved Oct. 2, 1964. 1 p. \* Paper, 5c.

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## NOVEMBER 1964

- 19423 615. H.R. 11913, act to authorize disposal, without regard to prescribed 6-month waiting period, of antimony from national stockpile and supplemental stockpile. Approved Oct. 2, 1964. 1 p. \* Paper, 5c.
- 19424 616. H.R. 11332, act to authorize certain veteran's benefits for disability or death resulting from injuries sustained prior to Jan. 1, 1957, by reservists while proceeding directly to or returning directly from active duty for training or inactive duty training. Approved Oct. 2, 1964. 1 p. \* Paper, 5c.
- 19425 617. H.R. 12091, act to authorize disposal, without regard to prescribed six-month waiting period, of approximately 9,500,000 pounds of sisal from national stockpile. Approved Oct. 2, 1964. 1 p. \* Paper, 5c.
- 19426 618. H.R. 10328, act for relief of certain commissioned officers of Army or Air Force who were erroneously paid uniform allowance under provisions of sec. 305 of Career compensation act of 1949, as amended, and for other purposes. Approved Oct. 3, 1964. 1 p. \* Paper, 5c.
- 19427 619. H.R. 9435, act to improve judicial procedures for serving documents, obtaining evidence, and proving documents in litigation with international aspects. [Approved Oct. 3, 1964.] 5 p. \* Paper, 5c.
- 19428 620. H.R. 2501, act to authorize promotion of qualified service officers of Army and Air Force to existing unit vacancies. Approved Oct. 3, 1964. 1 p. \* Paper, 5c.
- 19429 621. H.R. 2512, act to clarify status of members of National Guard while attending or instructing at National Guard schools established under authority of Secretary of Army or Secretary of Air Force, as case may be, and for other purposes. Approved Oct. 3, 1964. 1 p. \* Paper, 5c.
- 19430 622. S. 1082, act to establish in Treasury correctional industries fund for government of District of Columbia, and for other purposes. [Approved Oct. 3, 1964.] 2 p. \* Paper, 5c.
- 19431 623. H.R. 2859, act to provide for promulgation of rules of practice and procedure under Bankruptcy act, and for other purposes. Approved Oct. 3, 1964. 1 p. \* Paper, 5c.
- 19432 624. H.R. 2509, act to authorize Reserve officers to combine service in more than one reserve component in computing 4 years of satisfactory Federal service necessary to qualify for uniform maintenance allowance. Approved Oct. 3, 1964. 1 p. \* Paper, 5c.
- 19433 625. H.R. 12033, act to further amend transitional provisions of act approved Sept. 6, 1958, entitled Act to protect public health by amending Federal food, drug, and cosmetic act to prohibit use in food of additives which have not been adequately tested to establish their safety, and for other purposes. Approved Oct. 3, 1964. 1 p. \* Paper, 5c.

### ATOMIC ENERGY JOINT COMMITTEE

Washington, D.C. 20515

- 19434 Nuclear power economics, analysis and comments, 1964; prepared [by Philip Sporn, chairman, System Development Committee, Amercian Electric Power Co.]; Oct. 1964. 1964. v+51 p. (Joint committee print, 88th Congress, 2d session.) \* Paper, 20c.  
L.C. card 64-62978 Y 4.At 7/2: P 87/5

### ECONOMIC JOINT COMMITTEE

Washington, D.C. 20510

- 19435 Discriminatory ocean freight rates and balance of payments, hearings, 88th Congress, 1st and 2d sessions, June 20, 1963-Mar. 26, 1964. ● Item 1000  
L.C. card 63-62444 Y 4.Ec 7: F 88/pt.5  
pt. 5. Appendix. 1964. viii+777-1273 p. 2 tab. \* Paper, \$1.75.

### HOUSE OF REPRESENTATIVES

Washington, D.C. 20515

- 19436 Major legislative actions, 88th Congress (adjourned Oct. 3, 1964) final edition (revised); prepared by Office of Coordinator of Information. [1964.] 34 p. 4° †  
L.C. card 50-60030 Y 1.2: L 52/964-6/rev.
- 19437 Major legislative actions, 88th Congress [1st and 2d sessions], (adjourned Oct. 3, 1964), final edition; prepared by [Jesse Laventhol], Office of Coordinator of Information. [1964.] 42 p. 4° †  
L.C. card 50-60030 Y 1.2: L 52/964-6

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# GOVERNMENT PUBLICATIONS

- 19438 Platforms of Democratic Party and Republican Party, 1964; [compiled by] Ralph R. Roberts. Sept. 1964. [2]+84 p. † ● Item 998  
L.C. card 28-23481 Y 1.2: P 69/964

## House bills

NOTE.—The following list includes all public bills and resolutions introduced during the period of this catalog with the exception of those which were identical with bills and resolutions previously introduced. Amendments are not listed.

For information concerning bills, see (1) House calendar, (2) Congressional record index, or (3) Digest of public general bills prepared by the Legislative Reference Service, Library of Congress.

Depository libraries should consult the depository shipping lists for a complete list of bills and resolutions sent to them by the Superintendent of Documents.

- 19439 H.R. 12541, 12634-37, 12641-47, 12670-72, 12682-91, 12693-95, 12698-12700, 12707-12, 12733-36, 12749-57, 12771-93, 12818-20, H. Con. Res. 364-372, H. Joint Res. 1177-1193, H. Res. 885-905. 88th Congress. ● Item 1006.

## House documents

NOTE.—All House documents, entries for which are followed by a †, may be obtained from the House Document Room or from the issuing office.

### House documents, 88th Congress.

- 19440 308, [pt. 4]. Mississippi River and tributaries project, letter from chief of engineers, Army, submitting report on review of project, v. 4; May 21, 1964. 1964. [512] p. il. 39 pl. 12 p. of pl. 4° [Also issued in departmental edition and sent to depositories in that form. See Entry no. 19658.] †  
L.C. card 64-62412
- 19441 313. United States contributions to international organizations, letter from Acting Secretary of State transmitting 12th report on extent and disposition of U.S. contributions to international organizations for fiscal year 1963; June 29, 1964. 1964. vii+138 p. 2 tab. † ● Item 996  
L.C. card 53-60235
- 19442 315. Report on audit of Commodity Credit Corporation, Department of Agriculture, fiscal year 1963, letter from Comptroller General transmitting report; July 1, 1964. 1964. vi+44 p. 4° † ● Item 996  
L.C. card 50-61316
- 19443 335. United States defense policies in 1963 [with bibliography]; prepared by [Charles H. Donnelly], Library of Congress, Legislative Reference Service; May 4, 1964. 1964. xii+165 p. 1 pl. † ● Item 996  
L.C. card 58-61885
- 19444 353. Coasts of Hawaiian Islands, letter from chief of engineers, Army, submitting report; Aug. 19, 1964. 1964. xiv+102 p. il. 3 pl. 4° [Also issued in departmental edition and sent to depositories in that form. See Entry no. 19648.] †
- 19445 354. Maximum desirable dimensions and weights of vehicles operated on Federal-aid systems, letter from Secretary of Commerce transmitting report; Aug. 19, 1964. 1964. xii+172 p. il. \* Paper, 45c. ● Item 996  
L.C. card 64-62964
- 19446 355. National Aeronautics and Space Administration, 10th semiannual report to Congress, July 1-Dec. 31, 1963. [1964.] xiv+231 p. il. \*(Available in departmental edition, \$1.00, NAS 1.1: 963-2, and sent to depositories in that form. See Entry no. 20631.)
- 19447 358. United States policy and international cooperation in Antarctica, special report, [prepared by Edwin S. Costrel and Warren H. Reynolds, Area Studies Branch, Historical Office, Department of State]; Sept. 2, 1964. 1964. ix+56 p. il. † ● Item 996  
L.C. card 64-62967
- 19448 359. Wetsel-Oviatt Lumber Co., Inc., message from President of United States returning without approval H.R. 7132. Sept. 2, 1964. 3 p. † ● Item 996
- 19449 361. Panama Canal Company, Canal Zone Government, annual report, fiscal year 1963. [1964.] cover title, viii+142 p. il. [Also issued in departmental edition and sent to depositories in that form. See Entry no. 19281.]
- 19450 363. Should Federal Government establish national program of public work for unemployed? selected excerpts and references relating to national college debate topic 1964-65, compiled by Economics Division of Legislative Reference Service, Library of Congress; Sept. 1964. 1964. vi+402 p. il. [Contains copyright material.] \* Paper, \$1.00. (To be sent to depository libraries in serial set binding.)  
L.C. card 64-62963
- 19451 364. 2d annual report of U.S. Advisory Commission on International Educational and Cultural Affairs, letter from chairman, transmitting 2d annual report; Sept. 21, 1964. 1964. iii+23 p. † ● Item 996  
L.C. card 63-61480

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- 19452 365. Food for peace, 20th semiannual report on Public law 480, [83d Congress, as amended, for period Jan. 1-June 30, 1964]. [1964.] cover title, 61, p. ii. 4° † ● Item 996  
L.C. card 57-61702
- 19453 367. Report on strategic importance of Western Europe, letter from Acting Chairman, U.S. Advisory Commission on International Educational and Cultural Affairs transmitting report, by Walter Adams, Professor of Economics, Michigan State University and member, U.S. Advisory Commission on International Educational and Cultural Affairs; Sept. 24, 1964. 1964. iv+18 p. † ● Item 996

### House reports

NOTE.—For titles of bills which these reports accompany, see Congressional record index.

House reports on public bills, 88th Congress. † House Document Room, Capitol. ● Item 1008-A

- 19454 1887. To create select committee to conduct study and investigation of all factors relating to general welfare and education of congressional pages. Report from Committee on Rules to accompany H. Res. 847. Sept. 16, 1964. 1 p.
- 19455 1888. Consideration of H.R. 1096. Report from Committee on Rules to accompany H. Res. 882. Sept. 16, 1964. 1 p.
- 19456 1889. Establishing correctional industries fund for District of Columbia. Report from Committee on District of Columbia to accompany S. 1082. Sept. 17, 1964. 7 p.
- 19457 1890. Proposed agreement for cooperation regarding exchange of atomic information between Government of United States and North Atlantic Treaty Organization and its member nations. Report from Joint Committee on Atomic Energy pursuant to sec. 202 of Atomic energy act of 1954, as amended. Sept. 17, 1964. 24 p.
- 19458 1891. Supplemental appropriation bill, 1965. Report from Committee on Appropriations to accompany H.R. 12633. Sept. 17, 1964. 33 p.
- 19459 1892. Consideration of H.R. 8546. Report from Committee on Rules to accompany H. Res. 884. Sept. 17, 1964. 1 p.
- 19460 1893. Providing for consideration of H.J. Res. 1101, joint resolution to amend Constitution of United States to guarantee right of any State to apportion one house of its legislature on factors other than population. Report from Committee on Rules to accompany H. Res. 848. Sept. 17, 1964. 1 p.
- 19461 1894. Taking H.R. 5932 from Speaker's table and agreeing to Senate amendments. Report from Committee on Rules to accompany H. Res. 883. Sept. 17, 1964. 1 p.
- 19462 1895. Disposition of sundry papers. Report from Joint Committee on Disposition of Executive Papers. Sept. 22, 1964. 2 p.
- 19463 1896. Civil service retirement annuity increases. Report from Committee on Post Office and Civil Service to accompany H.R. 2155. Sept. 22, 1964. 13 p.
- 19464 1897. Public law 480 extension. Conference report to accompany 2687. Sept. 22, 1964. 8 p.
- 19465 1898. Foreign Service annuity adjustment act of 1964. Conference report to accompany S. 745. Sept. 24, 1964. 6 p.
- 19466 1899. World newsprint supply-demand, outlook through 1966. Report of Committee on Interstate and Foreign Commerce, Sept. 24, 1964. 1964. ii+37 p.  
L.C. card 60-61527
- 19467 1900. Graham Burke pumping plant, Ark. Report from Committee on Public Works to accompany S. 2649. Sept. 28, 1964. 3 p.
- 19468 1901. Designating authorized Justice Reservoir on Guyandot River, W. Va., as R. D. Bailey Reservoir. Report from Committee on Public Works to accompany H.R. 9583. Sept. 28, 1964. 3 p.
- 19469 1902. New Jersey Intercoastal Waterway-Point Pleasant Canal. Report from Committee on Public Works to accompany S. 2654. Sept. 28, 1964. 3 p.
- 19470 1903. Amending River and harbor act of 1962 relating to Lynnhaven Inlet, Bay, and connecting waters, Va. Report from Committee on Public Works to accompany H.R. 7530. Sept. 28, 1964. 4 p.
- 19471 1904. Authorizing modification of John Martin Reservoir project, Colo., in order to provide permanent reservoir pool for recreational and fish and wildlife purposes. Report from Committee on Public Works to accompany H.R. 9522. Sept. 28, 1964. 4 p.
- 19472 1905. Table Rock Dam and Reservoir project, Mo., amendment to act of July 13, 1959, relating to sale of certain lands to Missouri. Report from Committee on Public Works to accompany H.R. 9659. Sept. 28, 1964. 5 p.
- 19473 1906. Modifying flood control project on Scioto River, Ohio. Report from Committee on Public Works to accompany H.R. 12190. Sept. 28, 1964. 4 p.

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# GOVERNMENT PUBLICATIONS

## House reports on public bills, 88th Congress—Continued

- 19474 1907. Study No. 2, Manpower for research and development. Report of Select Committee on Government Research, under authority of H. Res. 504; Sept. 29, 1964. 1964. vii+71 p. \* (Available in committee print form only, Y 4.G74/8: St 9/no.2. See Entry no. 19511. Information on House report 1907 incorrect as to sale by Superintendent of Documents.)  
L.C. card 64-65418
- 19475 1908. Authorizing printing of report of meeting of American Instructors of Deaf as Senate document and providing for additional copies. Report from Committee on House Administration to accompany S. Con. Res. 78. Sept. 30, 1964. 5 p.
- 19476 1909. Providing for printing as House document Compilation of social security laws. Report from Committee on House Administration to accompany H. Res. 856. Sept. 30, 1964. 1 p.
- 19477 1910. Authorizing printing of additional copies of study entitled Obligations for research and development, and research and development plant. Report from Committee on House Administration to accompany H. Res. 877. Sept. 30, 1964. 1 p.
- 19478 1911. Providing for printing of 5,000 additional copies of immigration hearings before Subcommittee 1 of Committee on Judiciary, House of Representatives, pts. 1, 2, and 3. Report from Committee on House Administration to accompany H. Con. Res. 358. Sept. 30, 1964. 1 p.
- 19479 1912. Authorizing printing of additional 1,000 copies of document entitled Study of population and immigration problems, population of United States. Report from Committee on House Administration to accompany H. Con. Res. 364. Sept. 30, 1964. 1 p.
- 19480 1913. Printing additional copies of committee print entitled Catalog of Federal aids to State and local governments. Report from Committee on House Administration to accompany S. Con. Res. 96. Sept. 30, 1964. 1 p.
- 19481 1914. That document entitled Index of United States defense policies from World War II through 1963, prepared by Charles H. Donnelly, Library of Congress, be printed as House document. Report from Committee on House Administration to accompany H. Res. 889. Sept. 30, 1964. 1 p.
- 19482 1915. Providing for printing hearings on Tax-exempt foundations and charitable trusts. Report from Committee on House Administration to accompany H. Res. 890. Sept. 30, 1964. 1 p.
- 19483 1916. Extension and amendment of National defense education act of 1958 and Public law 815 and 874, 81st Congress. Conference report to accompany S. 3060. Sept. 30, 1964. 17 p.
- 19484 1917. Consideration of House Joint Resolution 1183. Report from Committee on Rules to accompany H. Res. 892. Sept. 30, 1964. 1 p.
- 19485 1918. Consideration of H.R. 6151. Report from Committee on Rules to accompany H. Res. 893. Sept. 30, 1964. 1 p.
- 19486 1919. Consideration of H.R. 12318. Report from Committee on Rules to accompany H. Res. 894. Sept. 30, 1964. 1 p.
- 19487 1920. Roads and trails system for national forests. Report from Committee on Public Works to accompany S. 1147. Sept. 30, 1964. 12 p.
- 19488 1921. Federal share for emergency repair or reconstruction of certain highways. Report from Committee on Public Works to accompany S. 2968. Sept. 30, 1964. 6 p.
- 19489 1922. Taking H.R. 11380 from Speaker's table and sending same to conference. Report from Committee on Rules to accompany H. Res. 895. Sept. 30, 1964. 1 p.
- 19490 1923. Interstate planning and coordination of Great River Road. Report from Committee on Public Works to accompany S. 1593. Oct. 1, 1964. 6 p.
- 19491 1926. Authorizing disposal of zinc from national stockpile. Report from Committee on Armed Services to accompany H.R. 12435. Oct. 2, 1964. 8 p.
- 19492 1927. Activity of Committee on Interstate and Foreign Commerce, 88th Congress, 2d session. Report of Committee on Interstate and Foreign Commerce pursuant to sec. 136 of Legislative reorganization act of 1946, Public law 601, 79th Congress, and House resolution 17, 88th Congress; Oct. 2, 1964. 1964. ii+33 p. [Covers activities of 1st and 2d sessions.]  
L.C. card 48-46555
- 19493 1928. Supplemental appropriation bill, 1965. Conference report to accompany H.R. 12633. Oct. 2, 1964. 10 p.
- 19494 1929. Medal of Honor pension. Conference report to accompany H.R. 2434. Oct. 2, 1964. 2 p.

## Agriculture Committee, House

Washington, D.C. 20515

[Committee hearings] serial, 88th Congress. † ● Item 1010

- 19495 XX. Dairymen's class 1 base plan, hearings, 88th Congress, 2d session, on S. 1915, June 10-Aug. 4, 1964. 1964. iii+137 p. il.  
L.C. card 64-62776 Y 4.Ag 8/1: D 14/10
- 19496 YY. Transfers and sales of Federal lands and other miscellaneous forest legislation, hearings, 88th Congress, 2d session, Mar. 10-July 27, 1964. 1964. iv+62 p. il. map.  
L.C. card 64-62775 Y 4.Ag 8/1: L 23

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- 19497 CCC. Extend and amend Sugar act, hearing, 88th Congress, 2d session, on H.R. 12698 and H.R. 12699, Sept. 29, 1964. 1964. iii+16 p.  
L.C. card 64-62868 Y 4.Ag 8/1 : Su 3/16/964

**Armed Services Committee, House**

Washington, D.C. 20515

[Papers], 88th Congress. † ● Item 1012

NOTE.—These papers consist largely of hearings. They are paged continuously for binding at the end of session of Congress under title "Hearings before Committee on Armed Services of the House of Representatives on sundry legislation affecting the naval and military establishments." Title page, contents, and index are issued for each volume.

- 19498 67. Military hospital construction and utilization policies, report of Special Subcommittee on Construction of Military Hospital Facilities, rendered pursuant to hearings held, Apr. 14–July 2, 1964; Sept. 30, 1964. 1964.  
v+10361–379 p. Y 4.Ar 5/2a : 963–64/67

**Banking and Currency Committee, House**

Washington, D.C. 20515

- 19499 Bank holding company legislation, hearings, 88th Congress, 2d session, on H.R. 10668 and H.R. 10872, Apr. 28–June 30, 1964. 1964. v+314 p. il. †  
● Item 1013 Y 4.B 22/1 : B 22/8  
L.C. card 64-62774

**District of Columbia Committee, House**

Washington, D.C. 20515

- 19500 Home rule, hearings before Subcommittee no. 6, 88th Congress, 1st session, on H.R. 141 [and other bills], proponents' testimony, Nov. 18, 1963–Feb. 24, 1964. 1964. vi+477 p.+[1] folded leaf. † ● Item 1014  
L.C. card 64-62840 Y 4.D 63/1 : H 75/4
- 19501 Urban renewal in District of Columbia, hearings before subcommittee 4, 88th Congress, 1st session. † ● Item 1014 Y 4.D 63/1 : Ur 1/963/pt.5  
L.C. card 63-61726  
pt. 5. Adams-Morgan, May 17–July 26, 1963. 1964. vii+1633–2262 p. il. 7 maps.

**Education and Labor Committee, House**

Washington, D.C. 20515

- 19502 Broadening school assistance to federally affected areas, hearings before Select Subcommittee on Education, 88th Congress, 2d session, on H.R. 10159, July 27 and 29, 1964. 1964. iv+103 p. il. † ● Item 1015  
L.C. card 64-62493 Y 4.Ed 8/1 : Sch 6/13/964
- 19503 Interim report on ILO, hearing before Ad Hoc Subcommittee on International Labor Organization, 88th Congress, 2d session, on United States participation in International Labor Organization, hearing, Feb. 26, 1964. 1964. iii+19 p. † ● Item 1015  
L.C. card 64-62954 Y 4.Ed 8/1 : In 8/5
- 19504 International Labor Organization, 1964, hearings before Ad Hoc Subcommittee on International Labor Organization, 88th Congress, 2d session, on United States participation in International Labor Organization, Aug. 19 and 21, 1964. 1964. iii+66 p. † ● Item 1015  
L.C. card 64-62865 Y 4.Ed 8/1 : In 8/4
- 19505 Overtime penalty pay act of 1964, hearings before Select Subcommittee on Labor, 88th Congress, 2d session, on H.R. 1680 and H.R. 9802. †  
● Item 1015 Y 4.Ed 8/1 : P 29/4/app.  
L.C. card 64-62514  
Appendix. 1964. xii+907–1296 p. il.

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- 19506 Shared-time education, hearings before Ad Hoc Subcommittee on Study of Shared-Time Education, 88th Congress, 2d session, on H.R. 6074, Feb. 24-Mar. 11, 1964. 1964. iv+621 p. † ● Item 1015  
L.C. card 64-62864 Y 4.Ed 8/1: Ed 8/22
- 19507 To amend Fair labor standards act, hearings before General Subcommittee on Labor, 88th Congress, 1st session, on H.R. 5958, H.R. 6075, and H.R. 8002, Nov. 20-Dec. 13, 1963. 1964. v+327 p. [These hearings were held in Washington, D.C., Los Angeles, Calif., Honolulu, Hawaii, and Chicago, Ill.] † ● Item 1015  
L.C. card 64-62879 Y 4.Ed 8/1: L 11/10/964

## *Government Operations Committee, House*

Washington, D.C. 20515

- 19508 Authorizing checks to be drawn in favor of certain organizations for credit of person's account, hearing before subcommittee, 88th Congress, 2d session, on H.R. 11911, Aug. 12, 1964. 1964. iii+16 p. † ● Item 1016  
L.C. card 64-62770 Y 4.G 74/7: C 41
- 19509 Operations of Billie Sol Estes, report prepared by Intergovernmental Relations Subcommittee; Oct. 1964. 1964. v+439 p. il. (Subcommittee print, 88th Congress, 2d session.) †  
L.C. card 64-62867 Y 4.G 74/7: Es 8/2
- 19510 Satellite communications (military-civil roles and relationships), report prepared by Military Operations Subcommittee; Oct. 1964. 1964. iv+160 p. (Subcommittee print, 88th Congress, 2d session.) \* Paper, 40c.  
L.C. card 64-62866 Y 4.G 74/7: C 73/4

## *Government Research, Select Committee on, House*

Washington, D.C. 20515

- 19511 Study no. 2, Manpower for research and development, report, 88th Congress, 2d session, under authority of H. Res. 504; Sept. 29, 1964. 1964. v+71 p. (Committee print.) [Also issued as H.rp. 1907, 88th Cong., 2d sess., and sent to depositories in that form. See Entry no. 19474.]  
\* Paper, 25c. Y 4.G74/8: St 9/no. 2

## *Interior and Insular Affairs Committee, House*

Washington, D.C. 20515

[Committee hearings] serial, 88th Congress. † ● Item 1023  
Y 4.In8/14: 88/(nos.)

- 19512 27. Lower Teton division, Teton Basin Federal reclamation project, Idaho, hearings before Subcommittee on Irrigation and Reclamation, 88th Congress, 2d session, on H.R. 2337, June 25 and 26, 1964. 1964. iv+80 p.  
L.C. card 64-62803
- 19513 28. Dixie project, Utah, hearings before Subcommittee on Irrigation and Reclamation, 88th Congress, 1st and 2d sessions, on H.R. 3279, H.R. 4178, and S. 26, Oct. 2, 1963, St. George, Utah, June 22, 1964, Washington, D.C. 1964. iv+132 p.  
L.C. card 64-62863

## *Interstate and Foreign Commerce Committee, House*

Washington, D.C. 20515

- 19514 Uniform time, hearings before Subcommittee on Commerce and Finance, 88th Congress, 2d session, on H.R. 2335 [and other bills], June 18 and Aug. 4, 1964. 1964. v+145 p. il. † ● Item 1019  
L.C. card 64-62515 Y 4.In 8/4: T 48/3

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**Judiciary Committee, House**

Washington, D.C. 20515

[Committee hearings] serial, 88th Congress. † ● Item 1020  
Y 4.J 89/1: 88/(nos.)

- 19515 11. Columbus Day, hearing before Subcommittee no. 4, 88th Congress, 1st session, on H.R. 1118 [and other bills], Dec. 18, 1963. 1964. iv+45 p.  
L.C. card 64-62841
- 19516 12. Leif Erikson Day, hearings before Subcommittee 4, 88th Congress, 2d session, on H.J. Res. 393 [and other bills], Mar. 4, 1964. 1964. iii+46 p.  
L.C. card 64-62847
- 19517 13. Immigration, hearings before Subcommittee no. 1, 88th Congress, 2d session, on H.R. 7700 and 55 identical bills to amend Immigration and nationality act and H.R. 1629 [and other bills].  
L.C. card 64-62714  
pt. 2. July 2-Aug. 3, 1964. 1964. iii+385-602 p. [Corrected print.  
Incorrect copy was iii+385-502 p.]

**Merchant Marine and Fisheries Committee, House**

Washington, D.C. 20515

[Committee hearings] serial, 88th Congress. † ● Item 1021

- 19518 24. Review of dual-rate legislation, 1961-64, hearings before Subcommittee on Merchant Marine, 88th Congress, 2d session, on activities of Federal Maritime Commission and its administration of Shipping act of 1916 and other laws under its jurisdiction, July 21-Sept. 2, 1964. 1964. vi+761 p. il.  
L.C. card 64-62873 Y 4.M 53: 88-24
- 19519 Departmental reports on S. 2701, act to provide for investigation and study to determine site for construction of sea level canal connecting Atlantic and Pacific Oceans; May 28, 1964. 1964. ii+8 p. (Committee print, 88th Congress, 2d session.) †  
L.C. card 64-62278 Y 4.M 53: C 16/3

**Post Office and Civil Service Committee, House**

Washington, D.C. 20515

- 19520 Civil service retirement benefits, hearings, 88th Congress, 2d session, on H.R. 2155 and related bills, Aug. 12 and 13, 1964. 1964. iii+59 p. †  
● Item 1022  
L.C. card 64-62606 Y 4.P 84/10: R 31/23

**Public Works Committee, House**

Washington, D.C. 20515

[Committee hearing, serial], 88th Congress. † ● Item 1024

- 19521 25. Montana flood damage, hearing before Special Subcommittee on Montana Flood Damage, 88th Congress, 2d session, Aug. 5, 1964. 1964. iii+25 p.  
L.C. card 64-62772 Y 4.P 96/11: 88/25

**Ways and Means Committee, House**

Washington, D.C. 20515

- 19522 Federal excise tax structure, hearings, 88th Congress, 2d session. ● Item 1028  
L.C. card 64-61788 Y 4.W36: Ex 2/11/pt. (nos.)  
pt. 3. July 21-27, 1964. 1964. xxvi+123-123f, 124-562 p. il. \* Paper, \$1.25.  
pt. 4. July 28-30, 1964. 1964. xxvi+563-905 p. il. \* Paper, \$1.00.  
pt. 5. July 31 and Aug. 3, 1964. 1964. xxvi+907-1266 p. il. \* Paper, \$1.00.  
pt. 6. Summary of statements received from public witnesses, July 21-Aug. 3, 1964. 1964. xxvi+1267-1421 p. \* Paper, 50c.

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- 19523 [Change notice 5 to Government paper specification standards no. 3, Mar. 1, 1963; effective Nov. 1, 1964.] [1964.] [1]+5 p. 4° [Issued in loose-leaf form. Supersedes all previous issues.] \* Paper, \$2.00 (including supplementary material for an indefinite period); 50c. additional for foreign mailing. ● Item 1004-B Y 4.P93/1:7/3/ch.5

## SENATE

Washington, D.C. 20510

- 19524 Factual campaign information; compiled by Senate Library under direction of Felton M. Johnston, Secretary of Senate, Richard D. Hupman, Librarian. Revised Oct. 5, 1964. 1964. iii+137 p. 1 tab. ‡  
L.C. card 56-60948 Y 1.3: C 15/2/964-3

## Senate bills

NOTE.—The following list includes all public bills and resolutions introduced during the period of this catalog. Amendments are not listed.

For information concerning bills, see (1) Senate calendar, (2) Congressional record index, or (3) Digest of public general bills prepared by the Legislative Reference Service, Library of Congress.

Depository libraries should consult the depository shipping lists for a complete list of the bills and resolutions sent to them by the Superintendent of Documents.

- 19525 S. 3199-3200, 3202-3, 3205, 3208-9, 3217, 3220, 3222, 3225, 3228, 3236-37, 3243-46, 3249-50, S. Con. Res. 98-100, S. Joint Res. 204-208, S. Res. 370-382, 88th Congress. ● Item 1006

## Senate documents

NOTE.—All Senate documents, entries for which are followed by a †, may be obtained from the Senate Document Room or from the issuing office.

Senate documents, 88th Congress.

- 19526 95. Representative speeches of General of Army Douglas MacArthur, compiled by [Thomas C. Lyons, jr.], Legislative Reference Service, Library of Congress, [in cooperation with John P. Coder]; Apr. 29, 1964. 1964. vi+104 p. \* Paper, 30c. ● Item 996  
L.C. card 64-62966
- 19527 97. Proposed appropriation for Department of Labor, fiscal year 1965. Sept. 22, 1964. 2 p. † ● Item 996
- 19528 98. Proposed supplemental appropriations and proposed provision, for the judiciary, for executive branch, and for District of Columbia, fiscal year 1965. Sept. 22, 1964. 4 p. † ● Item 996
- 19529 99. Proposed supplemental appropriation for Department of Health, Education, and Welfare, fiscal year 1965. Sept. 23, 1964. 2 p. † ● Item 996
- 19530 100. Proposed appropriation for Small Business Administration, fiscal year 1965. Sept. 23, 1964. 2 p. † ● Item 996
- 19531 101. Proposed supplemental appropriation to pay judgments rendered against United States. Sept. 24, 1964. 7 p. † ● Item 996
- 19532 102. Proposed supplemental appropriation for Department of State, fiscal year 1965. Sept. 24, 1964. 2 p. † ● Item 996
- 19533 103. Proposed appropriation for Department of Commerce, fiscal year 1965. Sept. 24, 1964. 2 p. † ● Item 996
- 19534 105. Proposed appropriation for Appalachian Regional Commission, fiscal year 1965. Sept. 29, 1964. 2 p. † ● Item 996
- 19535 107. Record of press conference statements made by Everett McKinley Dirksen and Charles A. Halleck for joint Senate-House Republican leadership; Oct. 2, 1964. 1964. v+28 p. † ● Item 996
- 19536 108. Republican report of Everett McKinley Dirksen of Illinois, minority leader for 2d session, 88th Congress; Oct. 2, 1964. 1964. [1]+28 p. † ● Item 996  
L.C. card 64-65476

## Senate reports

NOTE.—For titles of bills which these reports accompany, see Congressional record index.

Senate reports on private bills, 88th Congress. † Senate Document Room, Capitol. ● Item 1008-B

- 19537 1560. Connecticut Beverage Co., Inc. Report from Committee on Judiciary to accompany H.R. 5759. Sept. 15, 1964. 6 p.

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- 19538 1563. Dr. Marshall Ku. Report from Committee on Judiciary to accompany S. 1225. Sept. 15, 1964. 7 p.
- 19539 1564. Lester W. and Sadie Hein. Report from Committee on Judiciary to accompany S. 1339. Sept. 15, 1964. 7 p.
- 19540 1565. Gerhard Hofacker. Report from Committee on Judiciary to accompany S. 2119. Sept. 15, 1964. 12 p.
- 19541 1566. Ivan Radic, his wife, Ester Radic, and their daughter, Olivera Radic. Report from Committee on Judiciary to accompany S. 2583. Sept. 15, 1964. 12 p.
- 19542 1567. Claire Angellilo. Report from Committee on Judiciary to accompany S. 2653. Sept. 15, 1964. 5 p.
- 19543 1568. Christos Stratis. Report from Committee on Judiciary to accompany S. 2689. Sept. 15, 1964. 10 p.
- 19544 1569. Georges Fraise. Report from Committee on Judiciary to accompany S. 2736. Sept. 15, 1964. 6 p.
- 19545 1570. George Tillson Weed. Report from Committee on Judiciary to accompany S. 2767. Sept. 15, 1964. 9 p.
- 19546 1571. Nikolai Artamonov. Report from Committee on Judiciary to accompany S. 2789. Sept. 15, 1964. 2 p.
- 19547 1572. Andreas, Gregorios, Eleni Nikolaos, and Anna Chingas. Report from Committee on Judiciary to accompany S. 2868. Sept. 15, 1964. 8 p.
- 19548 1573. Sp. Manuel D. Racelis. Report from Committee on Judiciary to accompany S. 2952. Sept. 15, 1964. 4 p.
- 19549 1574. Estate of R. M. Clark. Report from Committee on Judiciary to accompany S. 3064. Sept. 15, 1964. 30 p.
- 19550 1575. Dr. Josefin Quintos Marcelo. Report from Committee on Judiciary to accompany S. 3132. Sept. 15, 1964. 5 p.
- 19551 1576. Dr. Bernardino D. Marcelo. Report from Committee on Judiciary to accompany S. 3133. Sept. 15, 1964. 5 p.
- 19552 1577. Chester A. Brothers and Anna Brothers. Report from Committee on Judiciary to accompany H.R. 1851. Sept. 15, 1964. 4 p.
- 19553 1578. Mike Mizokami, Sam Mizokami, Tom Mizokami, and Hatsuyo Mizokami. Report from Committee on Judiciary to accompany H.R. 3642. Sept. 15, 1964. 8 p.
- 19554 1581. Conferring jurisdiction on U.S. Court of Claims to hear, determine and render judgment upon claim of Frank E. Lipp. Report from Committee on Judiciary to accompany S. 2286. Sept. 15, 1964. 6 p.
- 19555 1582. Patti Jean Fulton. Report from Committee on Judiciary to accompany H.R. 1853. Sept. 15, 1964. 6 p. [Corrected print. Incorrect print was 4 p.]
- 19556 1585. Mrs. Louis Graybill. Report from Committee on Finance to accompany H.R. 10294. Sept. 16, 1964. 4 p.
- 19557 1587. Nora Isabella Samuelli. Report from Committee on Judiciary to accompany S. 2413. Sept. 16, 1964. 4 p.
- 19558 1588. Nora Isabella Samuelli. Report from Committee on Judiciary to accompany S. 2414. Sept. 16, 1964. 10 p.

Senate reports on public bills, 88th Congress. † Senate Document Room, Capitol. ● Item 1008-A

- 19559 1561. Promulgation of rules of practice and procedure under Bankruptcy act. Report from Committee on Judiciary to accompany H.R. 2859. Sept. 15, 1964. 5 p.
- 19560 1562. White Cane Safety Day. Report from Committee on Judiciary to accompany H.J. Res. 753. Sept. 15, 1964. 1 p.
- 19561 1579. Relief of certain officers of naval service. Report from Committee on Judiciary to accompany H.R. 5042. Sept. 15, 1964. 4 p.
- 19562 1580. Judicial procedures in litigation with international aspects. Report from Committee on Judiciary to accompany H.R. 9435. Sept. 15, 1964. 20 p.
- 19563 1583. Authorizing payment of expenses incident to evacuation of dependents of military personnel from Panama and Cyprus. Report from Committee on Armed Services to accompany H.R. 11626. Sept. 15, 1964. 3 p.
- 19564 1584. Clarifying status of members of National Guard while attending or instructing at National Guard schools established under authority of Secretary of Army or Secretary of Air Force, as case may be, and for other purposes. Report from Committee on Armed Services to accompany H.R. 2512. Sept. 15, 1964. 7 p.
- 19565 1586. Disability and death benefits for reservists. Report from Committee on Finance to accompany H.R. 11332. Sept. 16, 1964. 5 p.
- 19566 1589. Retirement and disability system for certain employees of Central Intelligence Agency. Report from Committee on Armed Services to accompany H.R. 8427. Sept. 21, 1964. 26 p.
- 19567 1590. Joint Economic Committee funds. Report from Committee on Banking and Currency to accompany S. 3174. Sept. 21, 1964. 3 p.
- 19568 1591. Veterans pensions, NSLL. Report from Committee on Finance to accompany H.R. 1927. Sept. 22, 1964. 32 p.
- 19569 1592. Proposed agreement for cooperation regarding exchange of atomic information between Government of United States and North Atlantic Treaty Organization and its member nations. Report from Joint Committee on Atomic Energy pursuant to sec. 202 of Atomic energy act of 1954, as amended. Sept. 22, 1964. 24 p.  
L.C. card 64-62799

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## Senate reports on public bills, 88th Congress—Continued

- 19570 1593. Food additives transitional provisions amendment of 1964. Report from Committee on Labor and Public Welfare to accompany H.R. 12033. Sept. 23, 1964. 9 p.
- 19571 1594. Amendment to Small business investment act of 1958. Report from Committee on Banking and Currency to accompany S. 3199. Sept. 24, 1964. 4 p.
- 19572 1595. Making unlawful certain practices in connection with placing of minor children for permanent free care or for adoption. Report together with additional views from Committee on Judiciary to accompany S. 1541. Sept. 24, 1964. 9 p.
- 19573 1596. Authorizing printing for use of Committee on Foreign Relations of additional copies of its committee print entitled East-West trade, compilation of views of businessmen, bankers, and academic experts. Report from Committee on Rules and Administration to accompany S. Res. 369. Sept. 24, 1964. 2 p.
- 19574 1597. Authorizing printing as Senate document of 3d annual report by Agency for International Development on Implementation of Humphrey amendment. Report from Committee on Rules and Administration to accompany S. Res. 371. Sept. 24, 1964. 2 p.
- 19575 1598. Authorizing printing of prayers of Chaplain of Senate during 87th and 88th Congresses as Senate document. Report from Committee on Rules and Administration to accompany S. Res. 365. Sept. 24, 1964. 1 p.
- 19576 1599. Amending sec. 105(a) of Legislative branch appropriation act, 1965, with respect to disclosure in reports required thereunder of names of persons who have appeared as witnesses before committees sitting in executive session. Report from Committee on Rules and Administration to accompany S. 3162. Sept. 24, 1964. 3 p.
- 19577 1600. Authorizing United Spanish War Veterans to erect memorial in District of Columbia or its environs. Report from Committee on Rules and Administration to accompany H.J. Res. 793. Sept. 24, 1964. 3 p.
- 19578 1601. Tariff schedules technical amendments act of 1964. Report from Committee on Finance to accompany H.R. 12253. Sept. 25, 1964. 53 p.
- 19579 1602. Small business investment companies, recoveries of foreign expropriation losses, etc. Report from Committee on Finance to accompany H.R. 8050. Sept. 25, 1964. 23 p.
- 19580 1603. Amending act of June 29, 1960, authorizing additional extensions of time for final proof by certain entrymen under desertland laws and making such additional extension available to successors in interest of such entrymen. Report from Committee on Interior and Insular Affairs to accompany H.R. 6218. Sept. 29, 1964. 6 p.
- 19581 1604. Supplemental appropriation bill, 1965. Report from Committee on Appropriations to accompany H.R. 12633. Sept. 29, 1964. 47 p.
- 19582 1605. Foreign assistance and related agencies appropriation bill, 1965. Report from Committee on Appropriations to accompany H.R. 11812. Sept. 29, 1964. 20 p.
- 19583 1606. Authorizing Secretary of Interior to cooperate with Wisconsin in designation and administration of Ice Age National Scientific Reserve in Wisconsin. Report together with minority report from Committee on Interior and Insular Affairs to accompany H.R. 1096. Sept. 29, 1964. 9 p.
- 19584 1607. Department of Agriculture handling of pooled cotton allotments of Billie Sol Estes. Report of Committee on Government Operations made by its Permanent Subcommittee on Investigations together with individual, supplemental, and additional views; Sept. 30, 1964. 1964. v+211 p. il. [Erratum, 1 p., was issued also.] L.C. card 64-62965
- 19585 1608. Juvenile delinquency. Report of Committee on Judiciary, made by its Subcommittee to Investigate Juvenile Delinquency, pursuant to S. Res. 63, 88th Congress, 1st session; Oct. 2, 1964. 1964. iii+11 p. L.C. card 58-60635

*Aging, Special Committee on, Senate**Washington, D.C. 20510*

- 19586 Interstate mail order land sales, hearings before Subcommittee on Frauds and Misrepresentations Affecting the Elderly, 88th Congress, 2d session.  
● Item 1009  
L.C. card 64-62843 Y 4.Ag 4: L 22/pt. (nos.)  
pt. 1. May 18, 1964. 1964. iii+1-124 p. il. \* Paper, 35c.  
pt. 2. May 19, 1964. 1964. iii+125-232 p. il. \* Paper, 30c.
- 19587 Preneed burial service, hearing before Subcommittee on Frauds and Misrepresentation Affecting the Elderly, 88th Congress, 2d session, May 19, 1964. 1964. iii+28 p. \* Paper, 15c. ● Item 1009  
L.C. card 64-62872 Y 4.Ag 4: B 89

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**Appropriations Committee, Senate**

*Washington, D.C. 20510*

- 19588 Foreign assistance and related agencies appropriations for 1965, hearings, 88th Congress, 2d session, on H.R. 11812. 1964. ii+697+vi p. il. †  
● Item 1033  
L.C. card 64-62800 Y 4.Ap 6/2: F 76/7/965
- 19589 Labor, Health, Education, and Welfare appropriations for 1965, supplemental hearings before subcommittee, 88th Congress, 2d session, on H.R. 10809. 1964. ii+67+i p. † ● Item 1033  
L.C. card 60-61494 Y 4.Ap 6/2: L 11/965-2
- 19590 Supplemental appropriations bill, 1965, hearings, 88th Congress, 2d session, on H.R. 12633. 1964. ii+804+xvi p. † ● Item 1033  
L.C. card 64-62801 Y 4.Ap 6/2: Ap 6/2/965

**Armed Services Committee, Senate**

*Washington, D.C. 20510*

- 19591 Miscellaneous bills, hearings, 88th Congress, 2d session, on H.R. 2509, H.R. 2512, H.R. 10328, H.R. 11626, H.R. 12193, Sept. 10, 1964. 1964. iii+30 p. †  
● Item 1034  
L.C. card 64-62952 Y 4.Ar 5/3: B 49/12/964
- 19592 Nomination of Harold K. Johnson to be Chief of Staff, Army, hearing, 88th Congress, 2d session for appointment as Chief of Staff, Army in grade of general; July 2, 1964. 1964. ii+6 p. † ● Item 1034  
L.C. card 64-62802 Y 4.Ar 5/3: J 63

**Banking and Currency Committee, Senate**

*Washington, D.C. 20510*

- 19593 Michigan National Bank branch offices, hearing before subcommittee, 88th Congress, 2d session, on S. 2883, Aug. 7, 1964. 1964. v+136 p. il. †  
● Item 1035  
L.C. card 64-62846 Y 4.B 22/3: M 58

**Commerce Committee, Senate**

*Washington, D.C. 20510*

[Committee hearings] serial, 88th Congress. † ● Item 1041  
Y 4.C73/2: 88/(nos.)

- 19594 57. Vessel construction program to aid domestic trades, hearings before Merchant Marine and Fisheries Subcommittee, 88th Congress, 1st and 2d sessions, on S. 1773 [and] S. 1774, Dec. 11, 1963-Mar. 5, 1964. 1964. vi+262 p. il. L.C. card 64-62604
- 19595 58. Economic impact of low water levels in Great Lakes, hearing before Subcommittee on Merchant Marine and Fisheries, 88th Congress, 2d session, July 24, 1964. 1964. iii+100 p. il. 4 pl. 2 maps.  
L.C. card 64-62845
- 19596 59. National Economic Conversion Commission, hearings, 88th Congress, 2d session, on S. 2274, May 25 and June 22, 1964. 1964. iv+157 p. il.  
L.C. card 64-62874
- 19597 60. Fish protein concentrate, hearing before Subcommittee on Merchant Marine and Fisheries, 88th Congress, 2d session, on Federal Governments research program on fish protein concentrate, Aug. 14, 1964. 1964. iii+127 p. il. L.C. card 64-62873

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# GOVERNMENT PUBLICATIONS

## *Government Operations Committee, Senate*

*Washington, D.C. 20510*

- 19598 Interagency coordination in drug research and regulation, hearings before Subcommittee on Reorganization and International Organizations, 88th Congress, 1st session, review of cooperation on drug policies among Food and Drug Administration, National Institutes of Health, Veterans' Administration, and other agencies. ● Item 1037  
L.C. card 63-60684 Y 4.G 74/6: D 84/pt.5  
pt. 5. Testimony and exhibits, (including subsequent 1963-64 correspondence) on :  
(1) Commission on Drug Safety; (2) Pharmaceutical Manufacturers Association; (3) Medical education on drug therapy and other drug issues, June 19, 1963. 1964. vi+2173-2881 p. il. \* Paper, \$2.25.
- 19599 Metropolitan America, selected bibliography, prepared for Subcommittee on Intergovernmental Relations; Aug. 7, 1964. 1964. v+37 p. (Committee print, 88th Congress, 2d session.) ‡  
L.C. card 64-62889 Y 4.G74/6: M56/6
- 19600 Organized crime and illicit traffic in narcotics, hearings before Permanent Subcommittee on Investigations, 88th Congress, 1st and 2d sessions, pursuant to Senate resolution 278, 88th Congress. ● Item 1037  
L.C. card 63-65469 Y 4.G74/6: C 86/pt. 3  
pt. 3. Oct. 29, 1963-July 30, 1964. 1964. iii+627-863 p. il. 5 pl. 1 map.  
\* Paper, \$1.25.

## *Interior and Insular Affairs Committee, Senate*

*Washington, D.C. 20510*

- 19601 Assateague Island National Seashore, hearing before Subcommittee on Public Lands, 88th Congress, 2d session, on S. 2128, Aug. 11, 1964. 1964. iv+106 p. map. † ● Item 1040  
L.C. card 64-62771 Y 4.In8/13: As 7
- 19602 Indian fishing rights, hearings before Subcommittee on Indian Affairs, 88th Congress, 2d session, on S.J. Res. 170 and S.J. Res. 171, Aug. 5 and 6, 1964. 1964. v+246 p. il. † ● Item 1040  
L.C. card 64-62953 Y 4.In8/13: In 2/10
- 19603 Westlands water district contract, hearing, 88th Congress, 2d session, on proposed contract between Secretary of Interior and Westlands water district for construction of water distribution and drainage collector system in San Luis unit, Central Valley project, Calif., July 8, 1964. 1964. iv+180 p. † ● Item 1040  
L.C. card 64-62875 Y 4.In8/13: W 52

## *Labor and Public Welfare Committee, Senate*

*Washington, D.C. 20510*

- 19604 Conserve human and natural resources of Nation, hearing before Subcommittee on Employment and Manpower, 88th Congress, 2d session, on S. 2958, Aug. 5, 1964. 1964. v+335 p. il. † ● Item 1043  
L.C. card 64-62838 Y 4.L 11/2: R 31/2
- 19605 Problems of youth, fact book, prepared at request of Claiborne Pell of Rhode Island for Subcommittee on Employment and Manpower, by Legislative Reference Service, Library of Congress. 1964. ix+80 p. il. (Committee print, 88th Congress, 2d session) \* Paper, 25c.  
L.C. card 64-62888 Y4.L11/2: Y8/3
- 19606 To eliminate restrictions on spouse's benefits under Railroad retirement act of 1937, hearing before Subcommittee on Railroad Retirement, 88th Congress, 2d session, on H.R. 12362, Sept. 25, 1964. 1964. iii+22 p. † ● Item 1043  
L.C. card 64-62839 Y 4.L 11/2: R 13/10

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**Small Business, Select Committee on, Senate**

Washington, D.C. 20510

- 19607 Advertising allowances, 1964, hearing, 88th Congress, 2d session, on competitive and antitrust aspects of joint advertising programs by retailers, and nature and purpose of advertising allowances given to retailers by manufacturers and wholesalers, Aug. 12, 1964. iii+21 p. †  
 ● Item 1049  
 L.C. card 64-62773 Y 4.Sm 1/2: Ad 9/964
- 19608 Role and effect of technology in Nation's economy, hearings before subcommittee, 88th Congress, 1st session, review of effect of Government research and development on economic growth. † ● Item 1049  
 L.C. card 63-62395 Y 4.Sm 1/2: T 22/pt. (nos.)
- pt. 3. June 20-Dec. 18, 1963. 1964. iii+231-375 p. il.  
 pt. 4. Appendixes 1 and 2 to hearings held May 20-June 18, 1963. 1964. iii+377-521 p. il.  
 pt. 5. Appendix 3 to hearings held May 20-Dec. 18, 1963. 1964. v+522-652 p. il. 1 pl.  
 pt. 6. Appendixes 4 through 8 to hearings held May 20-Dec. 18, 1963. 1964. iv+653-826 p. il.

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Catalog of copyright entries, 3d series, v. 17.

- 19609 pt. 7-11A. Works of art, reproductions of works of art, scientific and technical drawings, photographic works, prints and pictorial illustrations, no. 2; July-Dec. 1963. 1964. ix+151-311 p. 4° \* Paper, \$2.00 a yr. 50c. additional for foreign mailing; single copy, \$1.00. ● Item 798  
 L.C. card 6-35347 LC 3.6/5: v.17/pt.7-11A/no.2
- 19610 pt. 11B. Commercial prints and labels, no. 2, July-Dec. 1963. 1964. viii+71-135 p. 4° \* Paper, \$2.00 a yr., 50c. additional for foreign mailing; single copy, \$1.00. ● Item 799  
 L.C. card 6-35347 LC 3.6/5: v.17/pt.11B/no.2

**COURT OF CLAIMS**

Washington, D.C. 20006

- 19611 Cases decided in Court of Claims, July 1-Oct. 31, 1962, with report of decisions of Supreme Court in Court of Claims cases, v. 158, reported by Margaret H. Pierce, reporter. 1964. xxv+738 p. \* Cloth, \$3.50.  
 ● Item 730  
 L.C. card 11-11998 Ju 3.9: 158

**CUSTOMS BUREAU, Treasury Dept.**

Washington, D.C. 20226

- 19612 Customs regulations of United States. 1964 reprint. [859] p. 4° [Code of Federal regulations, title 19, chap. 1. Cumulates sets of revised pages 1 through 100 of 1954 printing. Issued in loose-leaf form.] \* Paper, \$9.00 (including 1964 reprint and revised pages beginning with 101st set for an indefinite period); \$3.00 additional for foreign mailing.  
 L.C. card 43-50845 T 17.9: 964

**DEFENSE DEPARTMENT**

Washington, D.C. 20301

- 19613 Federal supply classification listing of DOD standardization documents; Sept. 30, 1964. [1964.] viii+1023+122+[1] p. 4° [Issued in loose-leaf form. Supersedes index dated July 31, 1963 and supplement dated July 31, 1964.] \* Paper, \$11.00 (including basic book and cumulative bimonthly supplements); \$3.00 additional for foreign mailing. ● Item 314-G  
 L.C. card 64-62934 D 7.14/2: 964

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- 19614 Index of specifications and standards: Sept. 30, 1964. [1964.] [Issued in loose-leaf form. Supersedes Index dated July 31, 1963, and Supplement dated July 31, 1964.] \* Paper, \$25.00 yr. (including basic issues, pts. 1 and 2, with cumulative bimonthly supplements for each part); \$6.00 additional for foreign mailing. ● Item 314-G

L.C. card 61-64801

D 7.14: 964/pt.1,2

- pt. 1. Alphabetical listing. viii + A853 + B94 + [1] p. 4°  
pt. 2. Numerical listing. viii + A1116 + B95 + [1] p. 4°

Military handbook MIL-HDBK (series). ● Item 314-A D 7.6/2: (nos.)

- 19615 5. Metallic materials and elements for flight vehicle structures, Change notice 3; May 1, 1964. [1964.] [63] p. il. 4° (FSC 1500.) [Issued in loose-leaf form.] \* Paper, 35c.  
19616 52. Military standardization handbook: Evaluation of contractor's calibration system. July 7, 1964. cover title, iii + 19 p. 4° \* Paper, 20c. L.C. card 64-62956  
19617 172A. Military standardization handbook: Electronic test equipment, v. 1; Mar. 11, 1964. [1964.] cover title, v + 170 p. il. 4° (Army Department, Technical manual TM 11-487H-11; Navy Department, NAVSHIPS 93003A.) [Text on p. 2 of cover. Issued in loose-leaf form. Supersedes category 1, Voltage and current measuring equipment, and category 2, Frequency measuring equipment of MIL-HDBK-172 (TM 11-487H-1), Sept. 20, 1957.] † L.C. card 64-62957

- 19618 MILSTRIP, military standard requisitioning and issue procedures; Change 2, Aug. 21, 1964. [1964.] [346] p. 4° (DoD 4140, 17-M; Office of Assistant Secretary of Defense (Installations and Logistics).) [Issued in loose-leaf form.] \* Paper, \$2.00. ● Item 314-A D 7.6/4: M 59/ch.2

Plastics Technical Evaluation Center, Picatinny Arsenal, Dover, N.J.: Plasteel report.

- 19619 17. Subject index, bibliography, and code description of technical conference papers on plastics, Feb. 28, 1963-Mar. 1, 1964; by Arnold E. Molzon. July 1964. [1] + vi + 111 + [6] p. 4° \* Paper, \$2.50. L.C. card 62-61556

D 4.11: 17

## ECONOMIC RESEARCH SERVICE, Agriculture Dept.

Washington, D.C. 20250

Agricultural economic report. ● Item 42-C

- 19620 60. New England farm vacation businesses, characteristics and owners' experiences; [by Jeanne M. Davis]. [Oct. 1964.] 20 p. il. 4° \* Paper, 15c. L.C. card Agr 64-469

A 93.28: 60

ERS (series). †

- 19621 186. Distribution patterns of rice in United States; [by Edward J. McGrath]. [July 1964.] 27 p. il. 4° (Marketing Economics Division.) L.C. card Agr 64-400

A 93.21: 186

- 19622 Farm-mortgage lending experience of 20 life insurance companies, Federal land banks, and Farmers Home Administration, Jan.-Mar. 1964. July 1964. 8 p. 4° (FML-12; Farm Production Economics Division.) †

A 93.9/5: 12

Foreign agricultural economic report. ● Item 42-B

- 19623 19. World food budget, 1970 [with list of references]. [Oct. 1964.] [2] + iv + 105 p. il. 4° (Foreign Regional Analysis Division.) † L.C. card Agr 64-470

A 93.27: 19

- 19624 U.S. foreign agricultural trade by countries, calendar year 1963. Oct. 1964. [2] + 89 p. 4° [Supplement to Foreign agricultural trade of United States.] † ● Item 42-E

L.C. card 49-46852

A 93.17/4: 963-2

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EDUCATION OFFICE, Health, Education, and Welfare Dept.  
Washington, D.C. 20201

- 19625 Aids for mathematics education, mathematics, universal language of modern civilization: Space-oriented mathematics for early elementary grades [with bibliography]; prepared by Edwina Deans. [1964.] 46+[1] p. il. 4° (OE-29058; Circular 741.) \* Paper, 30c. ● Item 460-A-29  
L.C. card E 58-31 FS 5.229: 29058
- 19626 Comprehensive report on enrollment in higher education, 1st term 1961-62 and summer sessions 1961; by Edith M. Huddleston and Naomi A. Sulkin. [1964.] v+85 p. il. 4° (OE-54032; Circular 743.) [Text on p. 2 of cover.] \* Paper, 60c. ● Item 460-A-54  
L.C. card HEW 64-129 FS 5.254: 54032
- 19627 Educational data: Portugal, historical background [with list of selected references]; compiled by Ellen M. Doherty in collaboration with George A. Male]. July 1964. 20 p. 4° (OE-14034-76; Information on education around the world, no. 76, Division of International Studies and Services.) † FS 5.214: 14034-76
- 19628 — Swiss Confederation [with list of selected references; compiled by Margaret L. King in collaboration with George A. Male]. Apr. 1964. 20 p. 4° (OE-14034-75; Information on education around the world, no. 75, Division of International Studies and Services.) \* Paper, 15c. ● Item 460-A-14 FS 5.214: 14034-75
- 19629 Financial assistance for construction of higher education facilities, regulations, Higher education facilities act of 1963. [1964.] 16 p. (OE-51008.) [Reprinted from Federal register, v. 29, no. 168 (Aug. 27, 1964).] † ● Item 460-A-51 FS 5.251: 51008
- 19630 Inservice mathematics education, promising practices for elementary and secondary school teachers, report of conference held under joint auspices of U.S. Office of Education and National Council of Teachers of Mathematics, Washington, D.C., Mar. 7-8, 1963 [with bibliography]; prepared by Veryl Schult and Theodore L. Abell. [1964.] vi+129 p. (OE-29056; Bulletin 1964, no. 36.) [Text on p. 2 of cover.] \* Paper, 50c. ● Item 460-A-29  
L.C. card HEW 64-127 FS 5.229: 29056
- 19631 Manpower development and training program, Electronic business data processing peripheral equipment occupations, suggested curricula [with bibliographies]. [1964.] viii+113 p. il. 4° (OE-86010; Division of Vocational and Technical Education.) [Developed and first published by McGraw-Hill, Inc., reissued with revisions by Office of Education, Department of Health, Education, and Welfare, 1964. Issued with perforations.] \* Paper, 75c. ● Item 460-A-86  
L.C. card HEW 64-124 FS 5.286: 86010
- 19632 Music curriculum guides; by Harold W. Arberg and Sarah P. Wood. [1964.] vii+47 p. (OE-33032; Bulletin 1964, no. 14.) \* Paper, 25c. ● Item 460-A-33  
L.C. card HEW 64-126 FS 5.233: 33032
- 19633 NDEA Language and Area Centers program. [1964.] [4]+16+[3] p. oblong 12° (OE-56017.) \* Paper, 20c. ● Item 460-A-56  
FS 5.256: 56017
- 19634 NDEA [National defense education act], language and area centers, report on 1st 5 years [with selected bibliography; by] Donald N. Bigelow, Lyman H. Legters. [1964.] v+131 p. il. 4° (OE-56016; Bulletin 1964, no. 41.) [Text on p. 2 and 3 of cover.] \* Paper, 55c. ● Item 460-A-56  
L.C. card HEW 64-123 FS 5.256: 56016

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- 19635 Nongraded schools [with list of references]; by Stuart E. Dean. July 1964. 29 p. 4° (OE-20009; Education briefs no. 1, Division of Elementary and Secondary Education, Instructional Programs Branch, Elementary Schools Section.) †  
L.C. card HEW 64-122 FS 5.220: 20009
- 19636 Number and kinds of earned doctor's degrees awarded by United States institutions in 1961-62; by John L. Chase, assisted by Helen O'Leary. [1964.] 10 p. 4° (OE-54030.) † FS 5.254: 54030
- 19637 Program for preparation of professional personnel in education of handicapped children. [1964.] 14 p. narrow 8° (OE-35059.) †  
FS 5.235: 35059
- 19638 State directors of junior colleges and coordinators of State systems for 2-year colleges, conference proceedings, Oklahoma Center for Continuing Education, University of Oklahoma, Norman, Okla., Nov. 20, 21, 1963. [1964.] vi+55 p. 4° (OE-57003-63.) † FS 5.257: 57003-63
- 19639 Statistics of land-grant colleges and universities, year ended June 30, 1962, (final report); by George Lind. [1964.] viii+128 p. 4° (OE-50002-62; Circular 734.) [Text on p. 2 of cover.] \* Paper, \$1.00. ● Item 460-A-50  
L.C. card E 8-677 FS 5.250: 50002-62
- 19640 Statistics of State school systems, 1961-62, final report; by Carol Joy Hobson and Samuel Schloss. [1964.] vii+102 p. il. 4° (OE-20020-62; Circular 751.) [Text and map on p. 2 and 3 of cover.] \* Paper, 65c. ● Item 460-A-20  
L.C. card HEW 64-121 FS 5.220: 20020-62
- 19641 Surgeon General's report on smoking, call for action, what part will schools play? [by] Elsa Schneider. [1964.] 1 p. 4° (OE-28009.) [Reprint from School life, Aug. 1964.] † FS 5.228: 28009
- 19642 Teachers negotiate with their school boards [with bibliography]; by James P. Steffensen. [1964.] v+84 p. (OE-23036; Bulletin 1964, no. 40.) \* Paper, 40c. ● Item 460-A-23  
L.C. card HEW 64-125 FS 5.223: 23036
- 19643 Training programs under Manpower development and training act of 1962, regulations for administration of pt. B of title 2, P.L. 87-415, 87th Congress, as amended P.L. 88-214, 88th Congress. [1964.] [2]+5 p. (OE-80023.) † ● Item 460-A-80 FS 5.280: 80023/2

## EMERGENCY BOARDS (under sec. 10, Railway labor act) Washington, D.C. 20572

- 19644 Report to the President by Emergency Board, appointed by Executive order 11147 dated Mar. 17, 1964, pursuant to sec. 10 of Railway labor act, as amended, to investigate certain disputes between carriers represented by National Railway Labor Conference and certain of their employees represented by Railway Employees' Department, AFL-CIO (National Mediation Board case no. A-7030). Aug. 7, 1964. iii+28 p. (No. 160.) † ● Item 833  
L.C. card A 64-7689 NMB 1.7: 160

## EMERGENCY PLANNING OFFICE, Executive Office of the President, Washington, D.C. 20504

- 19645 After attack, what? National recovery or national decline! [1964.] cover title, [1]+10 p. il. 12° [Text on p. 2 of cover.] † ● Item 856-C-1 PrEx 4.2: At 8
- 19646 Explanation of constitutional amendment for continuity of government. [1964.] [4] p. il. narrow 24° † ● Item 856-C-1 PrEx 4.2: G 74/3

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**EMPLOYMENT SECURITY BUREAU, Labor Dept.  
Washington, D.C. 20210**

- 19647 Current labor market conditions in engineering, scientific, and technical occupations; [prepared by Branch of Skill and Industry Surveys, United States Employment Service]. Aug. 1964. cover title, iii+29 p. il. 4° (Manpower Administration.) †  
L.C. card L 62-59 L 7.63/2: 964

**ENGINEERS CORPS (Army), Defense Dept.**

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- 19648 Coasts of Hawaiian Islands, letter from chief of engineers, Army, submitting report; Aug. 19, 1964. 1964. xiv+102 p. il. 3 pl. 4° [Also issued as H. doc. 353, 88th Cong. 2d sess.] † ● Item 334-A D 103.22: H 31
- Cold Regions Research & Engineering Laboratory, Hanover, N.H.: Research reports. (Army Materiel Command.) † D 103.33/3: (nos.)
- 19649 134. Profile and heat balance at bottom surface of ice sheet fringed by mountain ranges [with list of references]; by J. Weertman. May 1964. [2]+iv+7+[2] p. il. 4° ([DA task 8X99-27-001-03.])
- 19649A 143. Isothermal flow of air through snow of variable permeability [with list of references]; by Yin-Chao Yen, Chi Tien, James A. Bender. Aug. 1964. [2]+iv+11+[8] p. il. 4° ([Department of Army task 8X9-27-001-03.])
- 19650 144. Flow of air into partially-cased snow trench [with list of references]; by Yin-Chao Yen and Don Fisher. Aug. 1964. 1964. [2]+iv+9+[8] p. il. 4° (Army Materiel Command; [DA task 8X99-27-001-03.])
- 19651 145. Rate of growth or shrinkage of nonequilibrium ice sheets [with list of references]; by J. Weertman. Aug. 1964. [1]+iv+16+[1] p. il. 4° (Army Materiel Command; [DA task 8X99-27-001-03.])
- [Technical] report. (Army Materiel Command.) †
- 19652 12, v. 18. Bibliography on snow, ice and permafrost, with abstracts; [prepared by Frank M. Marson, and others]. June 1964. [1]+iv+273 p. 4° [Includes abstracts SIP 21001-22000.] D 103.33: 12/v.18
- Cold regions science and engineering; pt. 2, Physical science. (Cold Regions Research & Engineering Laboratory, Hanover, N.H.)
- 19653 2-A1. Sec. A, Geophysics; [1] Heat exchange at ground surface [with list of references]; by R. F. Scott. July 1964. viii+49+A7 p. il. 4 maps, 4° ([Department of Army project 8S66-02-001.]) † D 103.33/7: 2-A1
- Manuals EM (series). ● Item 338-A D 103.6/3: (nos.)
- 19654 1110-2-4300. [Engineering and design: Instrumentation for measurement of structural behavior of concrete gravity structures]. Sept. 8, 1958, Change 2; Aug. 24, 1964. [1964.] p. 55-56a il. 4° [Issued in loose-leaf form.] †
- 19655 1110-3-101. [Same: basic criteria and construction standards for Army facilities] Nov. 1, 1963; Change 2. Sept. 1, 1964. 1 p. 4° [Issued in loose-leaf form.] †
- 19656 1110-345-131, change 3. Same: Builders' hardware, [appendix 1, new and revised pages]; Oct. 1, 1964. [1964.] [38] p. 4° [Issued in loose-leaf form.] These revised and supplementary pages of Appendix 1 constitute Change 3 to EM 1110-345-131 (AFM 88-4, chap. 2), Aug. 31, 1961.] †
- 19657 1110-345-331. [Same: Gas distribution] Sept. 15, 1960; Change 3. [Sept. 30, 1964.] p. 3-4, 4° [Issued in loose-leaf form.] †
- 19658 Mississippi River and tributaries project, letter from chief of engineers, Army, submitting report on review of project, v. 4; May 21, 1964. 1964. [512] p. il. 39 pl. 12 p. of pl. 4° [Also issued as H. doc. 308, pt. 4, 88th Cong., 2d sess.] † ● Item 334-A D 103.22: M 691/31/v.4
- 19659 Recreation, Civil works projects. [1964.] [40] p. il. 4° † ● Item 337 D 103.2: R 24/3/964
- 19660 [This entry number not used.]

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# GOVERNMENT PUBLICATIONS

- 19661 Waterborne commerce of United States, calendar year 1963; pt. 3, Waterways and harbors, Great Lakes. [1964.] vi+220 p. il. 4° [Compiled under supervision of Division Engineer, Army Engineer Division, North Central Corps of Engineers, Chicago, Ill.] † Paper, \$1.25, Lake Survey, 630 Federal Building, Detroit 26, Mich.  
L.C. card 55-63535 D 103.1/2: 963/pt.3

## Waterways Experiment Station.

NOTE.—Unless otherwise indicated, publications of Waterways Experiment Station may be ordered from Corps of Engineers, U.S. Army, Waterways Experiment Station, Vicksburg, Miss. (Price upon application.)

## — Technical reports. †

D 103.24/2: (nos.)

- 19662 2-653. Spillway for Amistad Dam, Rio Grande, Mexico and United States, hydraulic model investigation; [prepared by J. L. Grace, jr.]. Army-MRC Vicksburg, Miss., Aug. 1964. [106] p. il. 4°
- 19663 2-657. Spillway for Oahe Dam, Missouri River, S. Dak., hydraulic model investigation; by E. S. Melsheimer, A. D. Rooke, jr. Army-MRC Vicksburg, Miss., Sept. 1964. [2]+viii+19+[1] p. il. 17 pl. 4° [Sponsored by Army Engineer District, Omaha, Nebr.]
- 19664 3-652, rp. 1. Measuring soil properties in vehicle mobility research, strength-density relations of air-dry sand; [prepared by A. J. Green, J. L. Smith, and N. R. Murphy]. Army-MRC Vicksburg, Miss., Aug. 1964. [5]+ix+28+[28] p. il. 4° [Sponsored by Army Materiel Command, project 1-T-O-21701-A-046.]  
L.C. card 64-62911
- 19665 6-654, rp. 1. Investigation of instruments for measuring pore pressures in concrete, literature review and preliminary laboratory tests [with list of references; by E. R. McCoy, jr., and E. C. Roshore]. Army-MRC Vicksburg, Miss., Aug. 1964. [3] leaves+vii+27+[9] p. il. 4°

## FAMILY SERVICES BUREAU, Health, Education, and Welfare Dept. Washington, D.C. 20201

### P.A. report. ● Item 519

- 19666 55. Group services in public welfare, guides for administration and program development [with list of selected references]; by Harleigh B. Trecker. 1964. vi+65 p. \* Paper, 30c.  
L.C. card HEW 64-118 FS 14.213: 55

## FEDERAL AVIATION AGENCY Washington, D.C. 20553

### Civil air regulations amendment.

- 19667 4b-16. Airplane airworthiness, transport categories: Flutter, deformation, and vibration requirements; effective Oct. 5, 1964. Aug. 31, 1964. 4 p. 4° [Published in Federal register, Sept. 5, 1964. Issued with perforations.] † C 31.209: 4b/4/amdt.16

### FAA handbook. [Issued in loose-leaf form.] ● Item 431-C-4

- 19668 FS P 8430.13. Air carrier operations inspector's handbook; [Aug. 7, 1964]. [1964.] cover title, [276] p. 4° [Cancels FS P 8410.8, Aug. 23, 1963.] † FAA 1.8/2: FS P 8430.13

- 19669 Federal Aviation Agency. [Sept. 1964.] 20 p. il. oblong 12° \* Paper, 25c.  
● Item 431-C-8 FAA 1.2: F 31/964

### Federal aviation regulations. [Issued in loose-leaf form.] ● Item 431-C-13 FAA 1.6/8: (nos.)

- 19670 pt. 11. General rule-making procedures, consolidated reprint. [1964.] cover title, [3]+3+7 p. 4° [This consolidated reprint incorporates Change 1.] \* Paper, 20c.
- 19671 pt. 33. Airworthiness standards: Aircraft engines. [1964.] cover title, [1]+ii+2+10 p. 4° [Effective on same date that pt. 21 (new) becomes effective.] \* Paper, 20c.
- 19672 pt. 47. Aircraft registration. [1964.] cover title, [3]+3+8 p. 4° \* Paper, 20c.
- 19673 pt. 61. Certification: Pilots and flight instructors, Change 7, [effective] June 12 [and] July 27, 1964. [1964.] [16] p. 4° †
- 19674 pt. 91. General operating and flight rules, consolidated reprint. [1964.] cover title, [3]+5+23 p. 4° [Consolidated reprint incorporates Changes 1-3.] \* Paper, 30c.
- 19675 pt. 171. Non-Federal navigation facilities. [1964.] cover title, [17] p. 4° \* Paper, 25c.

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**FEDERAL COMMUNICATIONS COMMISSION**

Washington, D.C. 20554

- 19676 Federal Communications Commission reports, decisions and reports, 34, Jan. 11-July 5, 1963. 1964. xx+1266 p. \* Cloth, \$4.00 ● Item 284  
L.C. card 36-26605 CC 1.12: 34
- 19677 Special study guide and reference material for examination for radio-telephone 3d class operator permit with broadcast endorsement for operation of certain broadcast stations. Aug. 1964. [1]+18 p. 4° †  
● Item 285-A CC 1.7/4: R 11/964

**FEDERAL COUNCIL FOR SCIENCE AND TECHNOLOGY**

Washington, D.C. 20506

NOTE.—The Federal Council for Science and Technology was established on March 13, 1959, by Executive order 10807.

- 19678 Patent Advisory Panel progress report, June 1964. [1964.] ii+38 p.  
\* Paper, 20c. ● Item 1061-B  
L.C. card 64-62928 Y 3.F 31/16: 2 P 27

**FEDERAL CREDIT UNIONS BUREAU, Health, Education, and  
Welfare Dept., Washington, D.C. 20201**

- 19679 Credit manual for Federal credit unions [with sources of information]. [Revised June 1964.] [1964.] iv+53 p. 4° (FCU 548.) \* Paper, 40c.  
● Item 526-B  
L.C. card 64-62922 FS 3.306/2: C 86/964
- 19680 Federal credit union act, as amended to July 2, 1964. [1964.] ii+30 p. il.  
(FCU 534.) \* Paper, 15c. ● Item 526-A FS 3.305: F 31/964

**FEDERAL DEPOSIT INSURANCE CORPORATION**

Washington, D.C. 20429

- 19681 Report to insured banks, June 30, 1964. [1964.] cover title, 8 p. il. 4° †  
L.C. card 36-26878 Y 3.F 31/8: 17/964

**FEDERAL HOME LOAN BANK BOARD**

Washington, D.C. 20552

- 19682 Federal Home Loan Bank System, practitioner's evaluation, [address] by Joseph P. McMurray, chairman, Federal Home Loan Bank Board, Washington, D.C., at Seminar on Federal Home Loan Bank System; sponsored by Federal Home Loan Bank of Greensboro, Williamsburg, Va., Oct. 16, 1964. [1964.] 12 p. 4° †  
FHL 1.23: M 22/38
- 19683 FSLIC-insured savings and loans associations average annual dividend rates paid, June 30, 1964. [Sept. 1964.] [4] p. 4° ([Operating Analysis Division.]) †  
FHL 1.21: 964
- 19684 Future executives in savings and loan industry [address], by Joseph P. McMurray, Chairman, Federal Home Loan Bank Board, before Detroit Chapter 15 of American Savings and Loan Institute, Detroit, Mich., Oct. 21, 1964. [1964.] 15 p. 4° †  
FHL 1.23: M 22/39

**FEDERAL HOUSING ADMINISTRATION, Housing and Home  
Finance Agency, Washington, D.C. 20410**

**Land planning bulletin.**

- 19685 6. Planned-unit development with homes association. [Revised 1964.] [1964.] cover title, 64 p. il. oblong 8° (FHA no. 1097.) [Prepared in cooperation with Office of Assistant Commissioner for Congressional Liaison and Public Information. Text on p. 2-3 of cover.] \* Paper, 65c. ● Item 591-A  
HH 2.7: 6/2

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# GOVERNMENT PUBLICATIONS

- 19686 [Minimum property standards for multifamily housing], General revision no. M-2: Aug. 1964. [1964.] [42] p. il. 4° (FHA 2600.) [Issued in looseleaf form. Applicable in all FHA insuring office jurisdictions and is effective immediately.] † ● Item 593 HH 2.17/3: M 91/rev.M-2

## FEDERAL MARITIME COMMISSION Washington, D.C. 20573

### FMC-SP-(series).

- 19687 64-10. Looking ahead in world trade, remarks by John Harllee, Chairman, Federal Maritime Commission, before Hampton Roads Foreign Commerce Club, Sept. 18, 1964, Norfolk, Va. [1964.] 6 p. 4° † FMC 1.9: 64-10

## FEDERAL POWER COMMISSION Washington, D.C. 20426

- 19688 Federal Power Commission reports, opinions, decisions, and orders, v. 22, July 1-Dec. 31, 1959. 1964. xxxiv+1-80B, 81-1254 p. il. \* Cloth, \$4.25. ● Item 438  
L.C. card 40-29138 FP 1.20: 22

- 19689 — v. 23, Jan. 1-June 30, 1960. 1964. xxxiv+997 p. \* Cloth, \$3.50.  
● Item 438  
L.C. card 40-29138 FP 1.20: 23

### FPC S (series). ● Item 440

- 19690 164. Statistics of electric utilities in United States, 1962, publicly owned systems. 1964. xix+[146] p. 4° \*Paper, \$1.00  
L.C. card 48-46244 FP 1.21: 164

National electric rate book, rate schedules for electric service in communities of 2,500 population or more, residential, commercial, and industrial services. [Issued with perforations.]

NOTE.—The complete rate book is made up of separate publications, each representing a State. They are sold on subscription basis by the Superintendent of Documents, \$8.00 a year, \$3.00 additional for foreign mailing; single copy, 25c.

- 19691 National electric rate book: Kansas. Aug. 1964. [2]+25 p. 4° [Supersedes issue of Oct. 1963.] ● Item 437-A-14 FP 1.18: K 13/964

- 19692 — Maryland. Aug. 1964. [2]+12 p. 4° [Supersedes issue of Sept. 1963.] ● Item 437-A-18 FP 1.18: M 36/964

- 19693 — Massachusetts. Aug. 1964. [2]+34 p. 4° [Supersedes issue of June 1963.] ● Item 437-A-19 FM 1.18: M 38/964

- 19694 — Michigan. Aug. 1964. [2]+33 p. 4° [Supersedes issue of Sept. 1963.] ● Item 437-A-20 FP 1.18: M 58/964

- 19695 — Mississippi. Aug. 1964. [2]+13 p. 4° [Supersedes issue of Nov. 1963.] ● Item 437-A-22 FP 1.18: M 69i/694

- 19696 — Nebraska. Sept. 1964. [2]+17 p. 4° [Supersedes issue of Sept. 1963.] ● Item 437-A-25 FP 1.18: N 27/964

- 19697 — New Hampshire. Sept. 1964. [2]+10 p. 4° [Supersedes issue of Oct. 1963.] ● Item 437-A-27 FP 1.18: N 42h/964

- 19698 — Oklahoma. Sept. 1964. [2]+22 p. 4° [Supersedes issue of Nov. 1963.] ● Item 437-A-34 FP 1.18: Ok 4/964

- 19699 — Rhode Island. Aug. 1964. [2]+4° [Supersedes issue of Nov. 1963.] ● Item 437-A-37 FP 1.18: R 34/964

- 19700 — Utah. Aug. 1964. [2]+8 p. 4° [Supersedes issue of May 1963.] ● Item 437-A-42 FP 1.18: Ut 1/964

- 19701 — Wyoming. Sept. 1964. [2]+11 p. 4° [Supersedes issue of Dec. 1963.] ● Item 437-A-48 FP 1.18: W 99/964

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FEDERAL RADIATION COUNCIL

Washington, D.C. 20449

Report.

- 19702 6. Revised fallout estimates for 1964-65 and verification of 1963 predictions.  
Oct. 1964. iii+29 p. il. 4° \* Paper, 25c. ● Item 1063-E Y 3.F 31/17: 8/6

FEDERAL RECONSTRUCTION AND DEVELOPMENT PLANNING  
COMMISSION FOR ALASKA

1815 H Street NW., Washington, D.C. 20006

NOTE.—The Federal Reconstruction and Development Planning Commission for Alaska was established by Executive Order 11150 of April 2, 1964, to develop coordinated plans for Federal programs for reconstruction and economic and resources development in Alaska, following the earthquake of March 27, 1964, and to recommend appropriate action to carry out such plans.

- 19703 Response to disaster, Alaskan earthquake, Mar. 27, 1964. Sept. 1964.  
cover title, viii+84 p. il. 4° \* Paper, 50c. ● Item 1049-E  
L.C. card 64-62644 Y 3.A1 1s/3: 2 D 63

FEDERAL RESERVE SYSTEM BOARD OF GOVERNORS

Washington, D.C. 20551

- 19704 Annual meetings of International Monetary Fund and International Bank  
for Reconstruction and Development, remarks by J. Dewey Daane, mem-  
ber, Board of Governors of Federal Reserve System, before luncheon  
meeting at Federal Reserve Bank of San Francisco, Sept. 30, 1964.  
[1964.] [1]+14 p. 4° † FR 1.23: D 11
- 19705 Borrowing short and lending long, remarks of C. Canby Balderston, vice  
chairman, Board of Governors of Federal Reserve System, before 50th  
annual fall conference of Robert Morris Associates, Montreal, Canada,  
Sept. 28, 1964. [1964.] [1]+11 p. 4° † FR 1.23: B 19/17
- 19706 Interest rates at home and abroad, remarks of George W. Mitchell, mem-  
ber, Board of Governors of Federal Reserve System at annual conven-  
tion of Iowa Bankers Association, Des Moines, Iowa, Oct. 21, 1964.  
● 1964.] [1]+16 p. 4° † FR 1.23: M 69/16
- 19707 New look at liquidity, remarks by J. Dewey Daane, member, Board of  
Governors of Federal Reserve System, before Carolina-Virginias Chap-  
ter of Robert-Morris Associates, White Sulphur Springs, W. Va., Oct.  
10, 1964. [1964.] [1]+14 p. 4° † FR 1.23: D 11/2
- 19708 New series on Federal funds. [1964.] p. 944-974, il. 4° [Based on materi-  
als prepared by Irving Auerbach, chief, Market Statistics Division,  
Federal Reserve Bank of New York. Reprinted from Federal reserve  
bulletin, Aug. 1964.] † FR 1.3/a: F 962

FEDERAL SUPPLY SERVICE, General Services Administration

Washington, D.C. 20405

- 19709 Federal specifications. ● Item 563 GS 2.8:

NOTE.—These specifications are now so completely covered by the Index of Federal specifications, standards, and handbooks with cumulative monthly supplements, that listing in the Monthly Catalog of United States Government Publications represents unnecessary and wasteful duplication of effort. For that reason they will no longer be listed.

Complete information on the Index of Federal specifications will be found in the Appendix to the February 1964 issue of the Monthly Catalog under Entry number 3585 and in the April 1964 issued under Entry number 6693.

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# GOVERNMENT PUBLICATIONS

Federal standards. [Issued with perforations.] ● Item 563

GS 2.8/3: (nos.)

NOTE.—Federal standards may be purchased from the General Services Administration, Business Service Center, Region 3, 7th and D Streets, S.W., Washington, D.C., 20407. All checks and money orders should be made payable to the Treasurer of the United States. Single copies are available without charge at the nearest GSA regional office.

- 19710 4b, sec. 1-3. Glossary of fabric imperfections; July 29, 1964. [1964.] 30 p. 4° [Supersedes Fed. std. 4a, sec. 1-2, Aug. 29, 1963.] †
- 19711 50c. Fan, circulating, bracket and fan, circulating, desk (for shore use); Aug. 27, 1964. [1964.] 2 p. 4° (FSC 4140.) [W-F-101, issue in effect. Supersedes Int. Fed. std 0050d, Dec. 20, 1963 and Fed. std. 50c, May 3, 1963.] † Paper, 5c.
- 19712 204a. Stop watch, laboratory; Sept. 4, 1964. [1964.] 2 p. 4° (FSC 6645.) [GG-S-764, issue in effect, MIL-W-6510, issue in effect. Supersedes Int. Fed. Std. 00204 (GSA-FSS) Apr. 4, 1963.] † Paper, 5c.

## FEDERAL TRADE COMMISSION

Washington, D.C. 20580

- 19713 Trade practice rules for phonograph record industry, promulgated Oct. 9, 1964. [1964.] [2]+17 p. ([FTC L-4984.]) † FT 1.16: P 56

## FISH AND WILDLIFE SERVICE, Interior Dept.

Washington, D.C. 20240

C. F. S. (series). (Bureau of Commercial Fisheries.) † I 49.8/2: (nos.)

- 19714 3141. Packaged fisheries products, 1962, annual summary. Revised [edition]. [Aug. 1964.] 5 p. il. 4°
- 19715 3144. Canned fishery products, 1962, annual summary. [Revised edition.] [Sept. 1964.] 17 p. il. 4°
- 19716 3157. Industrial fishery products, 1962, annual summary. Revised [edition.] [1964.] 9 p. il. 4°
- 19717 3536. Virginia landings, 1963, annual summary. [1964.] 11 p. il. 4° [Prepared in cooperation with Virginia Commission on Fisheries, Newport News, Institute of Marine Science, Gloucester Point, Potomac River Fisheries Commission, Colonial Beach.]
- 19718 3590. New England fisheries, 1963, annual summary. [1964.] 10 p. il. 4°
- 19719 3601. Hawaii fisheries, 1963, annual summary. [1964.] 4 p. il. 4° [Prepared in cooperation with Department of Land and Natural Resources, Division of Fish and Game, Honolulu, Hawaii.]
- 19720 3616. Chesapeake fisheries, 1963, annual summary. [1964.] 9 p. il. 4°

### Circulars.

I 49.4: (nos.)

- 19721 185, 186. Investigations in fish control: 1, Laboratories and methods for screening fish-control chemicals [with list of literature cited, by Robert E. Lennon and Charles R. Walker]; 2, Preliminary observations on toxicity of antimycin A to fish and other aquatic animals [with list of literature cited, by Charles R. Walker, Robert E. Lennon, and Bernard L. Berger]. June 1964. [40] p. il. 4° ([Bureau of Sport Fisheries and Wildlife.]) †
- 19722 197. Whooping cranes. July 1964. [8] p. il. narrow 8° (Bureau of Sport Fisheries and Wildlife.) †

### Commercial fisheries review, separates. †

I 49.10/a: (nos.)

- 19723 704. Shrimp explorations off Vancouver Island, B.C., by M/V John N. Cobb, Oct.-Nov. 1, 1962 [with list of literature cited]; by Lael L. Ronholt. [1964.] 7+[3] p. il. 4° [From v. 26, no. 6, June 1964.]
- 19724 705. Improved rapid method for determining total lipids in fish meal [with list of literature cited]; by Preston Smith, jr., Mary E. Ambrose, and George N. Knobl, jr. [1964.] 5 p. il. 4° [From v. 26, no. 7, July 1964.]

- 19725 Fishery bulletin, v. 63, no. 2 [articles, with lists of literature cited]. 1964. [2]+255-491 p. il. 4° (Bureau of Commercial Fisheries.) † ● Item 611 I 49.27: v.63/no. 2

### Fishery leaflets. †

I 49.28: (nos.)

- 19726 448. Some publications on fish culture and related subjects. Revised Aug. 1964. [1964.] 14 p. 4° (Bureau of Sport Fisheries and Wildlife, Division of Fish Hatcheries.)
- 19727 522. Separates from Commercial fisheries review [list, by subjects]. [Revised July 1964.] [1964.] 9 p. 4°

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- 19728 567. Caviar and other fish roe products [with list of literature cited]; by Norman D. Jarvis. [May 1964.] [21]+9 p. (Bureau of Commercial Fisheries.)  
[Revision of Research report 18 p. 164-184.]

Market news leaflets. (Fishery Market News Service, Division of Resource Development, Bureau of Commercial Fisheries.) †

I 49.52:(nos.)

- 19729 32. Venezuelan commercial catch, foreign trade, and major developments for 1961-62. May 1964. 17 p. 4  
19730 89. Peru, fish meal and oil report, 1963. May 1964. 8 p. 4°

Refuge leaflets.

I 49.44:(nos.)

- 19731 37. Moosehorn National Wildlife Refuge. [Revised Aug. 1964.] [1964.] 4 p. il. 4° (Bureau of Sport Fisheries and Wildlife.) †  
19732 158. Birds of Valentine National Wildlife Refuge. [Mar. 1956, revised July 1964.] [1964.] 4 p. 4° †  
19733 405. Reptiles, amphibians, and fishes of Okefenokee National Wildlife Refuge. [July 1964.] 4 p. 4° †

Regulatory announcement.

- 19734 73. Federal regulations governing hunting, possession, transportation, importation of waterfowl, coots, and cranes, 1964-65. Sept. 1964. 14 p. †  
● Item 613 I 49.24:73

SL [statistical list] series. (Bureau of Commercial Fisheries.) †

I 49.42:(nos.)

- 19735 16. Wholesale dealers in fishery products, Florida, 1963. Revised [edition]. [July 1964.] 16 p. 4°  
19736 20. Wholesale dealers in fishery products, Texas, 1963 (coastal area). Revised [edition]. [July 1964.] 7 p. 4°

Special scientific report: Fisheries (series). ‡ I 49.15/2:(nos.)

- 19737 468. Statistical records and computations on red salmon (*Oncorhynchus nerka*) runs in Nushagak district, Bristol Bay, Alaska, 1946-59 [with list of literature cited]; by Ole A. Mathisen, Robert L. Burgner, and Ted S. Y. Koo. June 1963. [31]+32 p. il. 4° (Bureau of Commercial Fisheries.) [Contribution no. 156, College of Fisheries, University of Washington.]  
19738 478. Age and size composition of menhaden catch along Atlantic Coast of United States, 1959, with brief review of commercial fishery [with list of literature cited]; by William R. Nicholson and Joseph R. Higham, jr. July 1964. iv+34 p. il. 4° (Bureau of Commercial Fisheries.)  
19739 479. Age and size composition of 1960 menhaden catch along U.S. Atlantic Coast, with brief review of commercial fishery [with list of literature cited]; by William R. Nicholson and Joseph R. Higham, jr. Aug. 1964. iv+41 p. il. 4° (Bureau of Commercial Fisheries.)

Statistical digest.

- 19740 56. Fishery statistics of United States, 1962 [with list of statistical publications]; by E. A. Power and C. H. Lyles. 1964. [2]+466 p. il. 4° (Bureau of Commercial Fisheries.) \* Paper, \$2.25. ● Item 615 I 49.32:56  
L.C. card 42-38120

Wildlife leaflet.

- 19741 460. Fur catch in United States, 1963; compiled in Bird and Mammal Laboratories, Division of Wildlife Research. July 1964. 4 p. 4° (Bureau of Sport Fisheries and Wildlife.) † I 49.13:460

## FLIGHT STANDARDS SERVICE, Federal Aviation Agency

Washington, D.C. 20553

- 19742 Flight training guide: Private pilot (airplane). Revised 1964. [1964.] vii+126 p. il. 12° ([Advisory circular AC 61-2A.]) [Includes study suggestions. Some pages are left blank for notes. Errata, 1 p., issued also.] \* Cardboard, \$1.00. ● Item 431-F-3  
L.C. card 64-62923 FAA 5.8/2: P 64/4/964

## FOOD AND DRUG ADMINISTRATION, Health, Education, and Welfare Dept., Washington, D.C. 20201

FDA publication. ● Item 475-A

- 19743 19-A. Your money and your life, FDA catalog of fakes and swindles in health field, Easy vision edition. [Aug. 1964.] 28 p. il. narrow 8° \* Paper, 15c. FS 13.111:19-A

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**FOREIGN AGRICULTURAL SERVICE, Agriculture Dept.  
Washington, D.C. 20250**

[Foreign Agricultural Service, miscellaneous] FAS-M (series). †

- 19744 93. F.A.O., its organization and work and United States participation; [by Ralph W. Phillips]. Revised Aug. 1964. [1964.] 1v+26+[1] p. il. 4°  
L.C. card Agr 64-471 A 67.26:93/2

**FOREIGN CLAIMS SETTLEMENT COMMISSION  
Washington, D.C. 20579**

- 19745 Index-digest of decisions, Bulgaria, Czechoslovakia, Hungary, Italy, Panama, Rumania, Soviet Union, Yugoslavia, 1949-62. [1964.] [2]+100 p. [Decisions contained in this volume pertain to claims filed under titles 1, 3, and 4 of International claims settlement act of 1949.] †  
● Item 1063-C  
L.C. card 64-62933 Y 3.F 76/3:5 D 35/949-62

**FOREST SERVICE, Agriculture Dept.  
Washington, D.C. 20250**

- 19746 Annual report, 1963, Institute of Tropical Forestry, Rio Piedras, P.R. [1964.] cover title, 24 p. il. 4° †  
L.C. card 64-62985 A 13.64/1:963
- 19747 Fernow Experimental Forest at Parsons, W. Va. 1964. cover title, 12 p. il. (Northeastern Forest Experiment Station.) [Text on p. 2 of cover.] †  
A 13.42/2: F 39
- 19748 Forest Products Laboratory, Madison, Wis., list of publications Jan. 1-June 30, 1964. [1964.] 18+[2] p. il. † A 13.27/8:964  
Research paper PSW-(series). (Pacific Southwest Forest and Range Experiment Station, Berkeley, Calif.) † A 13.78:PSW-(nos.)
- 19749 PSW-12. Wood density and growth of some conifers introduced to Hawaii; [by] Roger G. Skolmen. 1963. cover title, [2]+20 p. il. 4° [Abstract cards inserted.]
- 19750 PSW-14. Diseases of Monterey pine in native stands of California and in plantations of western North America [with list of literature cited; by] Harold R. Offord. 1964. cover title, [2]+37 p. il. 4° [Abstract cards inserted.]

**GENERAL ACCOUNTING OFFICE  
Washington, D.C. 20548**

- 19751 Report to Congress of United States: Audit of Federal Savings and Loan Insurance Corporation supervised by Federal Home Loan Bank Board, year ended June 30, 1963; by Comptroller General of United States. Oct. 1964. [6]+20 leaves, 4° † Paper, \$1.00.  
L.C. card 48-46844 GA 1.13: F 31/10/963
- 19752 — Deficiencies in award and administration of timber sales contracts in California region (region 5), Forest Service, Department of Agriculture; by Comptroller General of United States. Oct. 1964. cover title, [3] leaves+18 p. 4° † Paper, \$1.00.  
L.C. card 64-62834 GA 1.13: T 48
- 19753 — Examination of financial statements of Office of Treasurer of United States, Treasury Department, fiscal year 1963; by Comptroller General of United States. Sept. 1964. cover title, [3]+5 p. 4° † Paper, \$1.00.  
L.C. card 64-62761 GA 1.13: T 71

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‡Official Use. Not Available

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- 19754 — Excessive allocation of costs of certain streets and related facilities to Northside urban renewal project, Kansas City, Mo., Urban Renewal Administration, Housing and Home Finance Agency; by Comptroller General of United States. Sept. 1964. cover title, [4] leaves+24 p. il. 4° † Paper, \$1.00.  
L.C. card 64-62787 GA 1.13: St 8
- 19755 — Excessive prices negotiated by Defense Fuel Supply Center for storage of petroleum in commercial facility at Grand Forks, N. Dak., Department of Defense; by Comptroller General of United States. Sept. 1964. cover title, [4] leaves+25 p. 4° † Paper, \$1.00.  
L.C. card 64-62789 GA 1.13: P 44/6
- 19756 — Inadequate policies and practices relating to relocation of families from urban renewal areas, District of Columbia Redevelopment Land Agency and Housing and Home Finance Agency; by Comptroller General of United States. Sept. 1964. cover title, [5]+20 p. 4° † Paper, \$1.00.  
L.C. card 64-62790 GA 1.13: R 27
- 19757 — Ineffective administration contributing to unsatisfactory progress in rehabilitating Hyde Park-Kenwood urban renewal area, Chicago, Ill., Housing and Home Finance Agency; by Comptroller General of United States. Sept. 1964. [5]+39 leaves, il. 4° † Paper, \$1.00.  
L.C. card 64-62753 GA 1.13: H 99
- 19758 — Lack of progress under Defense standardization program resulting in unnecessary procurement and supply management costs for electronic items, Department of Defense; by Comptroller General of United States. Sept. 1964. cover title, [5] leaves+40 p. 4° † Paper, \$1.00.  
L.C. card 64-62646 GA 1.13: El 2/23
- 19759 — Need for effective management action to achieve substantial savings by furnishing uniforms in lieu of paying cash allowances to employees, Veterans Administration; by Comptroller General of United States. Sept. 1964. cover title, [3] leaves+15 p. 4° † Paper, \$1.00.  
L.C. card 64-62752 GA 1.13: Un 3
- 19760 — Opportunity for reducing Federal expenditures and effecting savings under cotton price-support program by deterring movement of cotton over long distances prior to its placement under price-support loan, Commodity Credit Corporation, Department of Agriculture; by Comptroller General of United States. Sept. 1964. cover title, [4] leaves+36 p. 4° † Paper, \$1.00.  
L.C. card 64-62615 GA 1.13: C 82/4
- 19761 — Summary of deficiencies related to inadequate administration of military budget support funds provided to certain countries under foreign assistance program; by Comptroller General of United States. Sept. 1964. cover title, [3] leaves+37 p. 4° † Paper, \$1.00.  
L.C. card 64-62791 GA 1.13: F 76/6
- 19762 — Uneconomical leasing of motor vehicles for use in assembly and check-out operations at Minuteman missile launch sites and avoidance of congressional controls relating to acquisition of motor vehicles, Department of Air Force; by Comptroller General of United States. Sept. 1964. cover title, [4] leaves+59 p. 4° † Paper, \$1.00.  
L.C. card 64-62792 GA 1.13: M 85
- 19763 — Unnecessary cost to Government through leasing of electronic data processing systems by Bacchus Works, Hercules Powder Company, Magna, Utah, Department of Defense; by Comptroller General of United States. Sept. 1964. cover title, [4] leaves+40 p. 4° † Paper, \$1.00.  
L.C. card 64-62793 GA 1.13: El 2/24

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# GOVERNMENT PUBLICATIONS

- 19764 Report to Congress of United States: Unnecessary cost to Government through leasing of electronic data processing systems by General Dynamics/Astronautics, division of General Dynamics Corporation, San Diego, Calif., Department of Air Force; by Comptroller General of United States. Sept. 1964. [5]+37 leaves, 4° † Paper, \$1.00.  
L.C. card 64-62836 GA 1.13: E1 2/25
- 19765 — Unnecessary costs incurred in procurement of defective torpedo tubes from Youngstown Welding and Engineering Company, Youngstown, Ohio, Department of Navy; by Comptroller General of United States. Sept. 1964. cover title, [3] leaves+39 p. 4° † Paper, \$1.00.  
L.C. card 64-62795 GA 1.13: T 63
- 19766 — Unnecessary costs incurred in purchase of automatic flight control systems for A-4 series aircraft, Department of Navy; by Comptroller General of United States. Sept. 1964. cover title, [4] leaves+37 p. 4° † Paper, \$1.00.  
L.C. card 64-62796 GA 1.13: F 64/2
- 19767 — Unnecessary costs to Government for insurance on Government-owned inventories and special tooling held by contractors under negotiated fixed-price contracts, Department of Defense; by Comptroller General of United States. Sept. 1964. cover title, [4] leaves+32 p. 4° † Paper, \$1.00.  
L.C. card 64-62647 GA 1.13: In 7
- 19768 — Unnecessary disposal of spare components procured for Hawk air defense guided-missile system, Department of Army; by Comptroller General of United States. Oct. 1964. cover title, [3] leaves+17 p. 4° † Paper, \$1.00.  
L.C. card 64-62882 GA 1.13: H 31
- 19769 — Unnecessary procurement of cargo transporters, Department of Army; by Comptroller General of United States. Sept. 1964. cover title, [3] leaves+22 p. 4° † Paper, \$1.00.  
L.C. card 64-62797 GA 1.13: C 19

## GENERAL SERVICES ADMINISTRATION

Washington, D.C. 20405

- 19770 Federal procurement regulations, June 1964. 2d edition. [1964.] [685] p. il. 4° [Transmitted by FPR circular 1; June 30, 1964. Issued in loose-leaf form. Replaces 1959 edition and all its changes.] \* Paper, \$7.50 (including basic regulations and supplementary material for an indefinite period); \$2.00 additional for foreign mailing. ● Item 558-A  
L.C. card 64-62936 GS 1.6/5: 964

## GEOLOGICAL SURVEY, Interior Dept.

Washington, D.C. 20240

Bulletins. ● Item 620 I 19.3: (nos.)

- 19771 1143-B. Coal resources of Lawrence County, Pa. [with list of references cited]; by J. A. Van Lieu and Elmer D. Patterson. 1964. iv+33 p. il. 5 pl. in pocket. [Prepared in cooperation with Pennsylvania Bureau of Topographic and Geological Survey. Coal resources of western Pennsylvania.] \* Paper, \$1.75.
- 19772 1156-D. Chemical quality of water, Brookhaven National Laboratory and vicinity, Suffolk County, N.Y. [with list of selected references]; by Wallace de Laguna. 1964. iv+73 p. il. 1 pl. in pocket. [This report concerns work done on behalf of Atomic Energy Commission. Studies of sites for nuclear energy facilities: Brookhaven National Laboratory.] \* Paper, 55c.
- 19773 1161-B. Geology of Linville Falls quadrangle, N.C. [with list of references cited]; by John C. Reed, jr. 1964. iv+53 p. il. 3 pl. in pocket. [Study of area of complex structural and metamorphic history in western North Carolina. Contributions to general geology. One plate is colored.] \* Paper, \$1.50.

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- 19774 1161-E. Geology of Christmas quadrangle, Gila and Pinal Counties, Ariz. [with list of references cited]; by Ronald Willden. 1964. iv+64 p. il. 2 pl. in pocket. [Description of rocks and structural features of area containing some major copper deposits of southeastern Arizona. Contributions to general geology. Plates are colored.] \* Paper, \$1.25.
- 19775 1162-G. Economic geology of Lakeland quadrangle, Fla. [with list of references cited]; by James B. Cathcart. 1964. vi+128+[3] p. il. and portfolio of 12 pl. [Prepared on behalf of Atomic Energy Commission. Contributions to economic geology. Includes title page and contents to Bulletin 1162.] \* Paper, \$3.75.
- 19776 1181-J. Geology of Upton quadrangle, Crook and Weston Counties, Wyo. [with list of references cited]; by William J. Mapel and Charles L. Pillmore. 1964. iv+54+[1] p. il. 1 pl. in pocket. [Prepared on behalf of Atomic Energy Commission. Contributions to general geology.] \* Paper, \$1.00.
- 19777 1181-P. Character and distribution of non-elastic minerals in Searles Lake evaporite deposit, Calif. [with list of references cited]; by George I. Smith and David V. Haines. 1964. iv+58+[1] p. il. [Prepared in cooperation with California. Resources Agency, Department of Conservation, Division of Mines and Geology. Contributions to general geology.] \* Paper, 25c.
- 19778 1181-S. Geology of Paradise quadrangle, Cache County, Utah [with list of literature cited]; by Thomas E. Mullens and Glen A. Izett. 1964. iv+32+[3] p. il. 1 pl. in pocket. [Study of surface geology of quadrangle and phosphate deposits which occur in mudstone of Mississippian age. Contributions to general geology. Includes title page and contents to Bulletin 1181.] \* Paper, 75c.
- 19779 1194-B. Hovey Group of northeastern Maine [with one reference]; by Louis Pavlides. [1964.] iii+6 p. il. Defines stratigraphic nomenclature for some early Paleozoic rocks in northeast Maine. Contributions to stratigraphy.] \* Paper, 10c.
- 19780 1194-C. Putnam group of eastern Connecticut [with list of references]; by H. Roberta Dixon. [1964.] iii+12 p. il. [Prepared in cooperation with Connecticut Geological and Natural History Survey. Contributions to stratigraphy.] \* Paper, 10c.

Professional papers. ● Item 624

I 19.16:(nos.)

- 19781 303-G. Geology of Killik-Ikkillik region, Alaska [with list of references cited]; by William W. Patton, jr. and Irvin L. Tailleux. 1964. iv+409-500 p. il. 2 pl. in pocket, 4° [Prepared and published at request of and in cooperation with Department of Navy, Office of Naval Petroleum and Oil Shale Reserves. Exploration of Naval petroleum reserve no. 4, and adjacent areas, northern Alaska, 1944-53, pt. 3, Areal geology. One plate is colored. Plate 50 issued in 2 sheets.] \* Paper, \$1.25.
- 19782 305-L. Core tests, Simpson area, Alaska [with list of literature cited], by Florence M. Robinson; with section on Temperature measurement studies, by Max C. Brewer. 1964. iv+645-730 p. il. 7 pl. in pocket, 4° [Prepared and published at request of and in cooperation with Department of Navy, Office of Naval Petroleum and Oil Shale Reserves. Exploration of Naval petroleum reserve no. 4 and adjacent areas, northern Alaska, 1944-53, pt. 5, Subsurface geology and engineering data.] \* Paper, \$2.00.
- 19783 383-B. Geologic factors that control occurrence and availability of ground water in Fort Rock Basin, Lake County, Oreg. [with list of references]; by E. R. Hampton. 1964. iii+29 p. il. 2 pl. in pocket, 4° [Prepared in cooperation with Oregon State Engineer. Hydrology of volcanic-rock terranes. Plates are colored.] \* Paper, \$1.50.
- 19784 403-A. General geology of Guam [with list of references cited]; by Joshua I. Tracey, jr., [and others]. 1964. [2]+iv+104 p. il. 3 pl. in pocket. [Study of stratigraphy, structure, and Tertiary geologic history of southernmost island of Mariana arc. Geology and hydrology of Guam, Mariana Islands. Two plates are colored.] \* Paper, \$2.50.
- 19785 411-H. Mathematics of dispersion with linear adsorption isotherm [with list of references]; by Akio Ogata. 1964. iii+9 p. il. 4° [Theoretical consideration of effect of reacting media on dispersion of fluids in porous media. Fluid movement in earth materials.] \* Paper, 20c.
- 19786 442. Water resources of upper Colorado River basin, basic data [with list of selected references]; by W. V. Iorns [and others]. 1964. viii+1036 p. il. 4° and portfolio of 4 pl. [Compilation of basic data on quantity and quality of water. Plates 1-4 each issued in 3 sheets.] \* Paper, \$13.25. L.C. card GS 64-369
- 19787 454-M. Bedrock valleys of New England coast as related to fluctuations of sea level [with list of references cited], by Joseph E. Upson and Charles W. Spencer. 1964. iv+44 p. il. 5 pl. in pocket, 4° [Depths to bed-rock in coastal valleys of New England, and nature of sedimentary fill resulting from sea-level fluctuations in Pleistocene and recent time. Shorter contributions to general geology.] \* Paper, 70c.

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# GOVERNMENT PUBLICATIONS

## Professional papers—Continued

- 19788 458-A. Regional geology of Steamboat Springs area, Washoe County, Nev. [with list of references]; by G. A. Thompson and D. E. White. 1964. iv+52 p. il. 2 pl. in pocket. [Volcanic geology structure, and mineral deposits of Mount Rose quadrangle and additional data from Virginia City and nearby quadrangles. Geology and geochemistry of Steamboat Springs area, Nev. Plates are colored.] \* Paper, \$1.50.
- 19789 469. Cambrian rocks of Pioche mining district, Nev. [with list of references cited], by Charles W. Merriam; with section on Pioche shale faunules, by A. R. Palmer. 1964. iv+59 p. il. 6 pl. in pocket, 4° [Stratigraphy of western zinc-lead district with emphasis on lithology and correlation of ore-bearing strata. One plate is colored.] \* Paper, \$1.25. L.C. card GS 64-371
- 19790 501-C. Geological Survey research 1964, chap. C [short papers, with lists of references]. 1964. vi+197 p. il. 4° [Scientific notes and summaries of investigations prepared by members of Geologic and Water Resources Divisions in fields of geology, hydrology, and related sciences.] \* Paper, \$1.75. L.C. card GS 60-286

## Water-supply papers. • Item 625

I 19.13: (nos.)

- 19791 1586-F. On determining pollutant distribution in tidal estuaries [with list of literature cited]; by E. E. Pyatt. 1964. iv+56 p. il. 2 pl. in pocket. [Hydrology of tidal streams.] \* Paper, 60c.
- 19792 1613-D. Relation of salt-water encroachment to major aquifer zones, Savannah area, Ga. and S.C. [with list of selected references]; by M. J. McCollum and H. B. Counts. 1964. iv+26+[1] p. il. 4 pl. in pocket. [Prepared in cooperation with Georgia Department of Mines, Mining, and Geology, City of Savannah, and Chatham County. Relation of salt water to fresh ground water.] \* Paper, 55c.
- 19793 1669-CC. Natural sources of salinity in Brazos River, Tex., with particular references to Croton and Salt Croton Creek basins [with bibliography]; by R. C. Baker, L. S. Hughes, and I. D. Yost. 1964. vi+81+[4] p. il. 4 pl. in pocket. [Prepared in cooperation with Brazos River Authority. Contributions to hydrology of United States. Includes title page and contents to Water-supply paper 1669.] \* Paper, \$1.25.
- 19794 1695. Geology and ground-water resources of southeastern New Hampshire [with list of selected references]; by Edward Bradley. 1964. v+80 p. il. 7 pl. in pocket. [Prepared in cooperation with New Hampshire Water Resources Board.] \* Paper, \$1.00. L.C. card GS 64-363
- 19795 1698. Ground-water resources and geology of northern and western Crook County, Wyo. [with list of references cited]; by Harold A. Whitcomb and Donald A. Morris; with section on Chemical quality of ground water, by Russell H. Langford. 1964. v+92+1 p. il. 2 pl. in pocket. [Prepared in cooperation with State Engineer of Wyoming.] \* Paper, \$1.50. L.C. card GS 64-372
- 19796 1735. Compilation of records of surface waters of United States, Oct. 1950–Sept. 1960: pt. 11, Pacific slope basins in California; [prepared in Water Resources Division]. 1964. xvi+715 p. il. 1 pl. in pocket. \* Paper, \$3.00. L.C. card GS 54-314
- 19797 1748. Apparatus and techniques for measuring bedload [with list of literature cited]; by D. W. Hubbell. 1964. v+74 p. il. \* Paper, 30c. L.C. card GS 64-373
- 19798 1753. Geology and ground-water resources of Los Alamos area, N. Mex. [with list of references]; by Roy L. Griggs; with section on quality of water, by John D. Hem. 1964. v+108 p. il. 1 pl. in pocket. [Prepared in cooperation with Atomic Energy Commission. Plate is colored.] \* Paper, \$1.50. L.C. card GS 64-364
- 19799 1764. Ground-water geology of Dickson, Lawrenceburg, and Waverly areas in western Highland Rim, Tenn. [with list of references cited]; by M. V. Marcher, R. H. Bingham, and R. E. Lounsbury. 1964. iv+50+[1] p. il. 7 pl. in pocket. [Prepared in cooperation with Tennessee Department of Conservation and Commerce, Division of Water Resources, and Division of Geology. Three plates are colored.] \* Paper, \$2.75. L.C. card GS 64-374
- 19800 1779-H. Ground water in Cedar Rapids division of lower Platte River basin, Nebr. [with list of references]; by James B. Hyland and Charles F. Keech; with section on Chemical quality of the water, by Philip G. Rosene. 1964. iii+12 p. il. 3 pl. in pocket. [Prepared as part of program of Department of Interior for development of Missouri River basin. Contributions to hydrology of United States.] \* Paper, 75c.

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- 19801 1779-O. Hydrology of aquifer systems in Memphis area, Tenn. [with list of references]; by J. H. Criner, P-C. P. Sun, and D. J. Nyman. 1964. v+54 p. il. 7 pl. in pocket. [Prepared in cooperation with city of Memphis, Memphis Light, Gas, and Water Division. Hydrogeologic delineation, analysis, and evaluation of principal water-bearing formations in Memphis ara, Tenn. Contributions to hydrology of United States.] \* Paper, \$2.00.
- 19802 1779-V. Ground water resources of eastern Arkansas in vicinity of U.S. Highway 70 [with selected bibliography]; by H. N. Halberg and J. E. Reed. 1964. iv+38 p.+[1] p. il. 4 pl. in pocket. [Prepared in cooperation with Arkansas Geological Commission. Contributions to hydrology of United States.] \* Paper, 65c.
- 19803 1779-X. Quality of Delaware River water at Trenton, N.J. [with list of selected references]; by Leo T. McCarthy, jr., and Walter B. Keighton. 1964. iv+51 p. il. 1 pl. in pocket. [Prepared in cooperation with Commonwealth of Pennsylvania Department of Forests and Waters and with city of Philadelphia Water Department. Contributions to hydrology of United States.] \* Paper, 50c.
- 19804 1783. Hydrologic conditions in Wheatland Flats area, Platte County, Wyo. [with list of selected references]; by Edwin P. Weeks. 1964. v+80 p. il. 8 pl. in pocket. [Prepared as part of program of Department of Interior for Development of Missouri River basin.] \* Paper, \$1.50. L.C. card GS 64-375
- 19805 1785. Appraisal of possibilities of artificial recharge to ground-water supplies in part of Roswell Basin, N. Mex. [with list of references]; by Ward S. Motts and R. L. Cushman. 1964. v+86 p. il. 7 pl. in pocket. [Prepared in cooperation with Pecos Valley Artesian Conservancy District and New Mexico State Engineer.] \* Paper, \$1.50. L.C. card GS 64-376

## HEALTH, EDUCATION, AND WELFARE DEPARTMENT

Washington, D.C. 20201

- 19806 Annual report [fiscal year] 1963; Health, Education, and Welfare Department. [1964.] vii+427 p. il. [Includes reports of subordinate agencies.] \* Paper, \$1.25. ● Item 444  
L.C. card 54-60477 FS 1.1: 963
- 19807 State salary ranges, selected classes in employment security, public welfare, public health, mental health, vocational rehabilitation, civil defense; July 1, 1964. [1964.] cover title, [1]+vi+45 p. 4° (Division of State Merit Systems.) †  
L.C. card 62-61754 FS 1.22: 964-2

## HOUSING AND HOME FINANCE AGENCY

Washington, D.C. 20410

- 19808 Careers in housing and community development. [1964.] [2]+20+[1] p. il. narrow 8° † ● Item 582  
HH 1.2: C 18/5
- 19809 Low-income demonstration program, project directory, sec. 207 of Housing act of 1961. Sept. 1964. cover title, [1]+22 p. 4° †  
HH 1.6/3: H 81/2/964

## IMMIGRATION AND NATURALIZATION SERVICE, Justice Dept.

Washington, D.C. 20240

- 19810 Federal textbook on citizenship: Our Constitution and Government, lessons on Constitution and Government of United States for use in public schools by candidates for citizenship; prepared by Catheryn Seckler-Hudson. Revised 1964. [1964.] viii+398 p. il. map. (M-7.) [Includes Declaration of Independence and Constitution of United States.] \* Paper, \$1.75. ● Item 724  
L.C. card 41-8176 J 21.9: C 76/964

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## INTERIOR DEPARTMENT

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- 19811 Natural resources of New Mexico. [1964.] 68 p. il. 4° (Office of Information.) \* Paper, 50c. ● Item 603-C  
L.C. card 63-62363 I 1.91: N 42m
- 19812 Remarks by Secretary of Interior Stewart L. Udall at dedication of new headquarters of Pennsylvania Horticultural Society, Philadelphia, Pa., Sept. 30, 1964. [1964.] 4 leaves, 4° † I 1.68: Ud 1/22  
[Saline water] research and development progress reports. I 1.88: (nos.)
- 19813 100. 2d annual report, Saline Water Demonstration Plant no. 1, Freeport, Tex., July 1962-June 1963; by Stearns-Roger Manufacturing Company, Denver, Colo. Mar. 1964. vii+ [86] p. il. 4° (Office of Saline Water.) † Paper, \$2.25 (PB 181681).  
L.C. card 64-65477
- 19814 104. Thermodynamic properties of saline water [with list of references]; by W. H. Power, B. M. Fabuss, Monsanto Research Corporation, Boston Laboratories, Everett, Mass., 02149. July 1964. [3]+vi+82 p. il. 4° (Office of Saline Water.) † Paper, \$2.25 (PB 181685).  
L.C. card 64-62973
- 19815 105. Economic and technical evaluation of wiped film evaporator; by Ralph E. Anderson [and] Charles W. Lotz, General Electric Company, Burlington, Vt. July 1964. [2]+ii+1-9A, 10-33, p. il. 4° (Office of Saline Water.) † Paper, \$1.00 (PB 181686).
- 19816 108. Chamber geometry in multi-stage flash evaporators [with list of references by Richardsons Westgarth & Company, Ltd., Wallsend-on-Tyne, England. July 1964. v+84+ [13] p. il. 4° (Office of Saline Water.) † Paper, \$2.50 (PB 181682).  
L.C. card 64-62974
- 19817 U.S. Department of Interior publications. [1964.] [2]+29 p. il. narrow 8° ([Office of Information.]) † ● Item 600-A I 1.89: P 96/964

## INTERIOR DEPARTMENT LIBRARY, Interior Dept.

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- 19818 Outdoor recreation, current periodicals; selected by Elaine P. Rosenthal. June 1964. cover title, ii+16 p. 4° (Reference Services.) †  
L.C. card 64-62926 I 22.9: Ou 8

## INTERNAL REVENUE SERVICE, Treasury Dept.

Washington, D.C. 20220

- 19819 Farmer's gas tax refund. [1964.] 15 p. il. oblong 32° (Publication 308 (rev. 6-64).) † ● Item 961 T 22.19: G 21/964
- 19820 Federal use tax on trucks, truck tractors, and buses. Revised June 1964. [1964.] 24 p. il. oblong 48° (Publication 349.) † ● Item 961  
T 22.19: T 76/964
- 19821 Looseleaf regulations system: Service 5, Procedure and administration, transmittal 17. Sept. 11, 1964. [8] p. 4° ● Item 961  
T 22.19/3: 5/trans.17

NOTE.—Service 5 consists of pts. 301-303 and 601 of title 26 of Code of Federal regulations. It is sold on a subscription basis by the Superintendent of Documents, \$3.00 (including basic material and supplements issued irregularly for approximately 3 years); 75c. additional for foreign mailing.

## INTERNATIONAL COMMERCE BUREAU, Commerce Dept.

Washington, D.C. 20230

- 19822 Low cost marketing aids for higher export profits, services available through Department of Commerce Field Offices. [1964.] [2]+6 p. 4°, folded into narrow 8° † ● Item 231-A C 42.2: Ex 7/4/964
- 19823 Market for U.S. products, Morocco [with bibliography; by Robert L. Dowell]. [1964.] viii+56 p. il. 4° [Supplement to International commerce.] \* Paper, 40c. ● Item 214  
L.C. card 63-60770 C 42.8/2: M 82

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Overseas business reports OBR (series). [Issued irregularly. Combines 3 parts of former World trade information service.] \* Paper, \$18.00 a yr., \$12.00 additional for foreign mailing; single copy, each 15c. (1-3 yr. subs.). ● Item 231-B

19824 64-70. Selling in Austria; prepared by Stuart M. Matlins. June 1964. 12 p. 4°  
C 42.20 : 64-70

19825 Sell your products through U.S. trade missions overseas. [Revised July 1964.] [1964.] [16] p. il. narrow 8° [Illustrations are colored.] \* Paper, 15c. ● Item 231-A  
C 42.2 : T 67/10/964

19826 What you should know about exporting, how-to-get-started handbook [with list of helpful reading]. [Revised edition.] Aug. 1964. viii+40 p. il. \* Paper, 25c. ● Item 231-E  
L.C. card 63-60267  
C 42.6/2 : Ex 7/964

**INTERNATIONAL DEVELOPMENT AGENCY, State Dept.**  
**Washington, D.C. 20520**

19827 United States Government memorandum to businessmen from State Dept., Agency for International Development, subject: Aids to business (overseas investment). [Revised edition.] [1964.] iii+57 p. \* Paper, 30c. ● Item 900-C-2  
L.C. card 64-62931  
S 18.2 : B 96/964

**INTERNATIONAL LABOR AFFAIRS BUREAU, Labor Dept.**  
**Washington, D.C. 20210**

19828 Remarks by Assistant Secretary of Labor George L-P Weaver at Charter Day Convocation, Atlanta University, Atlanta, Ga., Oct. 16, 1964. [1964.] 8 leaves, 4° (USDL-6366; [ILAB-65-471].) †  
L 29.10 : W 37

**INTERSTATE COMMERCE COMMISSION**  
**Washington, D.C. 20423**

19829 Motor carrier freight commodity statistics, class 1 common and contract carriers of property for year ended Dec. 31, 1962. [1964.] cover title, 25 p. oblong large 8° (Statement 64200 (7th in series); Bureau of Transport Economics and Statistics.) \* Paper, 75c. ● Item 687-A  
L.C. card A 58-9211  
IC 1 mot.22 : 962

Railroad accident investigation report. †

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- 20432 225. Wage chronology: Sinclair Oil companies, 1941-63. Aug. 1964. iv+22+[1] p. 4° \* Paper, 25c. ● Item 768-G  
L.C. card L 62-152
- 20434 258. Labor law and practice in Trust Territory of New Guinea, under Australian Administration; [prepared by Joan Clarke and reviewed by Harriett Micocci]. [July 1964.] cover title, iv+93 p. il. 4° \* Paper, 50c.  
● Item 768-G  
L.C. card L 64-113
- Bulletins. ● Item 768 L 2.3:(nos.)**
- 20435 1000. Brief history of American labor movement: [prepared in Division of Industrial and Labor Relations]. 1964 edition. [1964.] vi+100 p. il. 12° [List of references on p. 3 of cover.] \* Paper, 40c.  
L.C. card L 68-11
- 20436 1402. Labor and material requirements for public housing construction, Errata sheet. [1964.] 1 p. oblong 24° †
- 20437 1410. Industry wage survey: Cotton textiles, May 1964; [prepared by Charles M. O'Connor]. Aug. 1964. iv+57+[2] p. 4° \* Paper, 40c.  
L.C. card L 55-34
- 20438 1414. Industry wage survey: Synthetic textiles, May 1963; [prepared by Joseph C. Bush]. Aug. 1964. v+43+[2] p. 4° \* Paper, 35c.  
L.C. card L 55-258
- 20439 1430-1. Occupational wage survey: Boise City, Idaho, July 1964; [prepared by Richard P. Wilson]. Sept. 1964. iii+27 p. oblong 8° \* Paper, 25c.  
L.C. card L 49-125
- 20440 1430-2. Same: Scranton, Pa., Aug. 1964; [prepared by Anthony J. Ferrara]. Oct. 1964. iii+19 p. oblong 8° \* Paper, 20c.  
L.C. card L 49-125
- 20441 1430-3. Same: Green Bay, Wis., Aug. 1964; [prepared by Marvin Glick]. Oct. 1964. iii+29 p. oblong 8° \* Paper, 25c.  
L.C. card L 49-125
- 20442 1430-4. Same: Manchester N.H., Aug. 1964; [prepared by Leo Epstein]. Oct. 1964. iii+27 p. oblong 8° \* Paper, 25c.  
L.C. card L 49-125
- 20443 Employer expenditures for selected supplementary compensation practices for production and related workers, manufacturing industries, 1962. Aug. 1964. 9 p. 4° [Preliminary release.] † ● Item 769  
L 2.2: C 73/4
- 20444 Foreign languages and your career. [1964.] [8] p. il. narrow 8° [Prepared in cooperation with Department of Health, Education, and Welfare, Office of Education. Includes list of reprints from 1963-64 Occupational outlook handbook which contain information on careers in which a foreign language is needed or useful.] † ● Item 769-A  
L 2.46/3: F 76
- 20445 Indexes of output per man-hour for private economy, 1947-63. Feb. 1, 1964. 2+[2] p. 4° †  
L 2.2: Ou 8/2/947-63
- 20446 Social science and your career. [1964.] [8] p. il. narrow 8° [Prepared in cooperation with Education Office, Department of Health, Education, and Welfare. Includes reprints from 1963-64 Occupational outlook handbook which contain information on careers requiring social science study.] † ● Item 769  
L 2.2: So 1/2
- 20447 Technical note: Statistical structure of revised CPI; [by] Sidney A. Jaffe. [1964.] p. 916-924, 4° [From Monthly labor review, Aug. 1964.] †  
L 2.6/a: C 766/34
- 20448 Wage trends for occupational groups in metropolitan areas, 1963-64, summary release. Sept. 1964. 4 p. 4° †  
L 2.2: W12/34/963-64
- 20449 Your job as repairman or mechanic, Do you like to tinker with machinery? Is auto repairing your hobby? Do you try to fix electric fans or toasters? Do you like to take your bike apart, and can you put it together again? Are you a ham radio operator? [1964.] [6] p. il. narrow 8° [Includes list of reprints from 1963-64 occupational outlook handbook.] †  
● Item 769  
L 2.2: R 29/3

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GOVERNMENT PUBLICATIONS

LAKE SURVEY (Army), Defense Dept.  
630 Federal Bldg., Detroit, Mich. 48226

- 20450 Supplement 6, Oct. 1964, corrections and additions to 1964 Great Lakes pilot. [1964.] cover title, 9 leaves, 4° † U.S. Army Engineers District, 630 Federal Bldg., Detroit 26, Mich.  
L.C. card 6-7112 D 103.203: 964/supp.6

LAND MANAGEMENT BUREAU, Interior Dept.  
Washington, D.C. 20240

- 20451 Wildlife on public lands. [1964.] 36 p. il oblong 24° [Illustrations are colored.] \* Paper, 35c. ● Item 631 I 53.2: W 64

LIBRARY OF CONGRESS  
Washington, D.C. 20540

- 20452 Libraries and automation, proceedings of Conference on libraries and automation held at Airlie Foundation, Warrenton, Va., May 26-30, 1963, under sponsorship of Library of Congress, National Science Foundation, Council on Library Resources, Inc.; edited by Barbara Evans Markuson. 1964. xii+268 p. il. 4° \* Cloth, \$2.75. ● Item 768 LC 1.2: Au 8/2  
L.C. card 64-62653
- 20453 Union lists of serials, bibliography; compiled by Ruth S. Freitag. 1964. xiii+150+[1] p. 4° (General Reference and Bibliography Division, Reference Department.) \* Paper, \$1.25. ● Item 806-C LC 2.2: Se 6  
L.C. card 64-60073
- 20454 USSR and Eastern Europe, periodicals in Western languages; compiled by Paul L. Horecky and Robert G. Carlton. 1964. iv+[1]+67 p. 4° (Slavic and Central European Division, Reference Department.) \* Paper, 45c. ● Item 818-E LC 35.2: P 41/964  
L.C. card 64-60049
- 20455 Writer's experience: [by] Ralph Ellison and Karl Shapiro. 1964. v+32 p. [Lectures presented Jan. 6 and 27, 1964 under auspices of Gertrude Clarke Whittall Poetry and Literature Fund. Contains copyright material.] \* Paper, 20c. ● Item 818-B-2 LC 29.9: El 5  
L.C. card 64-60086

MARINE CORPS (Navy), Defense Dept.  
Washington, D.C. 20350

Fleet Marine Force manual FMFM (series).

- 20456 6-1. Marine division [with list of references]. [1964.] [1]+2+vi+202 p. il. 4° \* Paper, \$1.25. ● Item 384 D 214.9/4: 6-1

MARITIME ADMINISTRATION, Commerce Dept.  
Washington, D.C. 20230

MA SP (series). † C 39.210/2: (nos.)

- 20457 64-5. Fresh approach to cargo handling problem; by Nicholas Johnson, Maritime Administrator, Department of Commerce, remarks prepared for delivery at Maritime Cargo Symposium, Port of Long Beach, Calif., Sept. 17, 1964. [1964.] 7 p. 4°
- 20458 64-7. National answer, by Nicholas Johnson, Maritime Administrator, Department of Commerce, remarks prepared for delivery before Propeller Club annual convention, New York City, Oct. 2, 1964. [1964.] 8 p. 4° ([US-DC-Comm-10:49.])
- 20459 64-7a. Maritime Administration research and development program, by Edward M. MacCutcheon, Chief, Office of Research and Development, Maritime Administration, Department of Commerce, remarks delivered at Pacific Northwest Section Society of Naval Architects and Marine Engineers, Gearhart, Oreg., Oct. 17, 1964. [1964.] 7 p. 4°

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- 20460 64-8. Our greatest resource, by Nicholas Johnson, Maritime Administrator, Department of Commerce, remarks prepared for delivery before Propeller Club, luncheon, Portland, Oreg., Oct. 21, 1964. [1964.] 6 p. 4° ([US-DC-Comm-10409.])

**MEDICINE AND SURGERY BUREAU (Navy), Defense Dept.  
Washington, D.C. 20350**

- 20461 Navy ensign medical program. [1964.] cover title, 24 p. il. ([NAVMED P 5075; NRAF 65105.]) † ● Item 385 D 206.2: En 7/964

**MILITARY HISTORY, OFFICE OF CHIEF OF (Army), Defense  
Dept., Washington, D.C. 20310**

- 20462 United States Army in World War II: Special studies, Buying aircraft, matériel procurement for Army Air Forces [with bibliographical note]; by Irving Brinton Holley, jr. 1964. xviii+643 p. il. large 8° \* Cloth, \$4.75. ● Item 345 L.C. card 64-60000 D 114.7: Ai 7

**MINERALS EXPLORATION OFFICE, Interior Dept.  
Washington, D.C. 20240**

- 20463 12th semi-annual report, Office of Minerals Exploration, Department of Interior, June 30, 1964. [1964.] [4]+10+[1] p. il. 4° [Prepared for transmittal to Congress through the President pursuant to sec. 5 of Public law 701, 85th Congress. Title on cover is: 12th semi-annual report on exploration assistance, June 30, 1964.] † 1 55.1: 964

**MINES BUREAU, Interior Dept.  
Washington, D.C. 20240**

- 20464 Abrasive materials; by Paul M. Ambrose. [1964.] [2]+20 p. il. [Preprint from Minerals yearbook, 1963, v. 1.] \* Paper, 15c. I 28.37/a: Ab 84/963
- 20465 Aluminum; by John W. Stamper. [1964.] [2]+28 p. [Preprint from Minerals yearbook, 1963, v. 1.] \* Paper, 15c. I 28.37/a: Al 82/963
- 20466 Antimony; by D. E. Moulds. [1964.] [2]+10 p. [Preprint from Minerals yearbook, 1963, v. 1.] \* Paper, 10c. I 28.37/a: An 87/963
- 20467 Bauxite; by Lloyd R. Williams and John W. Stamper. [1964.] [2]+21 p. il. [Preprint from Minerals yearbook, 1963, v. 1.] \* Paper, 15c. I 28.37/a: B 329/963
- 20468 Carbon black; by Ivan F. Avery. [1964.] [2]+11 p. il. [Preprint from Minerals yearbook, 1963, v. 2.] \* Paper, 10c. I 28.37/a: C 177/963
- 20469 Cement; by William R. Barton. [1964.] [2]+32 p. il. [Preprint from Minerals yearbook, 1963, v. 1.] \* Paper, 15c. I 28.37/a: C 332/963
- 20470 Chromium; by R. W. Holliday. [1964.] [2]+14 p. [Preprint from Minerals yearbook, 1963, v. 1.] \* Paper, 10c. I 28.37/a: C 468/2/963
- 20471 Employment and injuries in metal and nonmetal industries; by Forrest T. Moyer. [1964.] [2]+9 p. [Preprint from Minerals yearbook, 1963, v. 1.] \* Paper, 10c. I 28.37/a: M 564/2/963
- 20472 Ferroalloys; by Gilbert L. DeHuff. [1964.] [2]+14 p. [Preprint from Minerals yearbook, 1963, v. 1.] \* Paper, 10c. I 28.37/a: F 417/963
- 20473 Fluorspar and cryolite; by Paul M. Ambrose. [1964.] [2]+18 p. [Preprint from Minerals yearbook, 1963, v. 1.] \* Paper, 10c. I 28.37/a: F 673/963

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- 20474 Gem stones; by Benjamin Petkof. [1964.] [2]+12 p. [Preprint from Minerals yearbook, 1963, v. 1.] \* Paper, 10c. I 28.37/a: G 284/963
- Information circulars. I 28.27: (nos.)
- 20475 8222. Sulfur resources and production in Texas, Louisiana, Missouri, Oklahoma, Arkansas, Kansas, and Mississippi, and markets for sulfur [with bibliographies]; by F. F. Netzeband [and others]. [1964.] [2]+iii+77 p. il. 4° \* Paper, 45c. ● Item 637-A  
L.C. card 64-62918
- 20476 8227. American standard safety rules for installing and using electrical equipment in and about coal mines (M2.1); by American Standards Association. [1964.] vii+27 p. il. 4° [Revision of Bulletin 514, American standard safety code for installing and using electrical equipment in coal mines, M2.1, 1952. Sponsors, American Mining Congress and Bureau of Mines.] \* Paper, 25c. ● Item 637-A
- 20477 8232. Injury experience in coal mining, 1962 [analysis of mine safety factors, related employment, and production data]; by Forrest T. Moyer [and others]. [1964.] [2]+iv+82 p. il. 4° † Mines Bureau, Pittsburgh, Pa., 15213  
L.C. card 52-60589
- 20478 8233. Expanded clay and shale lightweight aggregate industry in south-central United States [with bibliography]; by W. G. Diamond, Thomas R. Early, and Harry R. Robertson. [1964.] [2]+iii+50 p. 4° † Mines Bureau, Pittsburgh, Pa., 15213  
L.C. card 64-62891
- 20479 8234. Technology and use of lignite, proceedings, Bureau of Mines-University of North Dakota Symposium, Grand Fork, N. Dak., Apr.-May 1963 [with bibliography]; compiled by Wayne R. Kube and James L. Elder. [1964.] [2]+v+128 p. il. 4° † Mines Bureau, Pittsburgh, Pa., 15213  
L.C. card 64-62970
- 20480 8238. In situ combustion project and 3 water-flood projects in Allen, Anderson, and Wilson Counties, Kans., 1964; by Kenneth H. Johnston. [1964.] [2]+ii+30 p. il. 4° [Based on work done in cooperation with Division of Sanitation, Kansas State Board of Health.] † Mines Bureau, Pittsburgh, Pa., 15213
- 20481 8239. Analyses of natural gases of United States, 1962; by Richard D. Miller and Geraldine P. Norrell. [1964.] [3]+120 p. 4° \* Paper, 60c. ● Item 637-A  
L.C. card 64-61479
- 20482 Iron and steel scrap; by Robert A. Whitman. [1964.] [2]+25 p. il. [Preprint from Minerals yearbook, 1963, v. 1.] \* Paper, 15c. I 28.37/a: Ir 6/2/963
- 20483 List of Bureau of Mines publications and articles, Jan. 1-Dec. 31, 1963, with subject and author index. 1964. iii+78 p. 4° (Special publication.) \* Paper, 60c. ● Item 638  
L.C. card 61-64978 I 28.5: 963
- 20484 Magnesium compounds; by Lloyd R. Williams and John W. Stamper. [1964.] [2]+12 p. il. [Preprint from Minerals yearbook, 1963, v. 1.] \* Paper, 10c. I 28.37/a: M 274/5/963
- 20485 Manganese; by Gilbert L. DeHuff. [1964.] [2]+22 p. il. [Preprint from Minerals yearbook, 1963, v. 1.] \* Paper, 15c. I 28.37/a: M 313/963
- 20486 Mica; by Benjamin Petkof. [1964.] [2]+17 p. [Preprint from Minerals yearbook, 1963, v. 1.] \* Paper, 10c. I 28.37/a: M 581/963
- 20487 Mineral industry of Connecticut; by James R. Kerr. [1964.] [2]+10 p. il. [Preprint from Minerals yearbook, 1963, v. 3.] \* Paper, 10c. I 28.37/a 2: C 76/963
- 20488 Mineral industry of Delaware; by Samuel A. Gustavson. [1964.] [2]+4 p. [Preprint from Minerals yearbook, 1963, v. 3.] \* Paper, 5c. I 28.37/a 2: D 37/963
- 20489 Mineral industry of Maine; by Joseph Krickich. [1964.] [2]+8 p. il. [Preprint from Minerals yearbook, 1963, v. 3.] \* Paper, 10c. I 28.37/a 2: M 28/963
- 20490 Mineral industry of New Hampshire; by Stanley A. Feitler. [1964.] [2]+6 p. il. [Preprint from Minerals yearbook, 1963, v. 3.] \* Paper, I 28.37/a 2: N 42 h/963

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- 20491 Mineral industry of Puerto Rico, Panama Canal Zone, Virgin Islands, and Pacific Island possessions; by Harry F. Robertson [and others]. [1964.] [2]+8 p. [Preprint from Minerals yearbook, 1963, v. 3.] \* Paper, 10c. I 28.37/a 2: P 96 r/963
- 20492 Mineral industry of Vermont; by James R. Kerr. [1964.] [2]+7 p. il. [Preprint from Minerals yearbook, 1963, v. 3.] \* Paper, 10c. I 28.37/a 2: V 59/963
- 20493 Molybdenum; by R. W. Holliday. [1964.] [2]+11 p. il. [Preprint from Minerals yearbook, 1963, v. 1.] \* Paper, 10c. I 28.37/a: M 739/963
- 20494 Peat; by Eugene T. Sheridan. [1964.] [2]+18 p. il. [Preprint from Minerals yearbook, 1963, v. 2.] \* Paper, 10c. I 28.37/a: P 329/963
- Petroleum products survey (series). (Mineral industry surveys.)  
† Mines Bureau, Pittsburgh, Pa., 15213
- 20495 36. Burner fuel oils, 1964; prepared by O. C. Blade. Sept. 1964. cover title, [1]+30 p.+ [3] leaves, map, il. 4° L.C. card 58-60254 I 28.18/3: 36
- 20496 Platinum-group metals in 1963; prepared by Glen C. Ware. Sept. 8, 1964. 7 p. 4° (Mineral industry surveys: Platinum-group metals, annual.)  
† Mines Bureau, Pittsburgh, Pa., 15213 I 28.77/2: 963
- 20497 Pumice; by Timothy C. May. [1964.] [2]+7 p. il. [Preprint from Minerals yearbook, 1963, v. 1.] \* Paper, 10c. I 28.37/a: P 968/963
- Report of investigations. I 28.23: (nos.)
- 20498 6514. Sulfatization of manganese minerals and selected gangue materials; by F. E. Joyce, jr., and Charles Prasky. [1964.] [3]+11 p. il. 4° [Includes lists of references in footnotes.] † Mines Bureau, Pittsburgh, Pa., 15213
- 20499 6523. Experimental production and smelting of prerduced iron ore pellets; by M. M. Fine, P. L. Woolf, and N. Bernstein. [1964.] [2]+ii+28 p. il. 4° † Mines Bureau, Pittsburgh, Pa., 15213
- 20500 6524. Preparation of aluminum fluoride from alumina hydrate and dilute fluoride solutions [with bibliography]; by Henry E. Blake, jr., and Robert K. Koch. [1964.] [3]+17 p. 4° † Mines Bureau, Pittsburgh, Pa., 15213
- 20501 6525. Optical activity in oils derived from coals; by Charles Zahn [and others]. [1964.] [2]+ii+32 p. il. 4° † Mines Bureau, Pittsburgh, Pa., 15213
- 20502 6526. Application of statistical analysis in evaluating bedded deposits of variable thickness—Florida phosphate data; by R. D. Berkenkotter. [1964.] [2]+ii+38 p. il. 4° † Mines Bureau, Pittsburgh, Pa., 15213
- 20503 6527. Process for preparation of thorium by sodium reduction of thorium tetrachloride [with list of references]; by H. O. Poppleton and F. E. Block. [1964.] [2]+ii+20 p. il. 4° † Mines Bureau, Pittsburgh, Pa., 15213
- 20504 6528. Aluminum extraction characteristics of 3 calcium aluminates in water, sodium hydroxide, and sodium carbonate solutions [with list of references]; by R. V. Lundquist and H. Leitch. [1964.] [3]+16 p. il. 4° † Mines Bureau, Pittsburgh, Pa., 15213
- 20505 6529. Recovery of tin from hardhead by filtration [with list of references]; by J. A. Ruppert and P. M. Sullivan. [1964.] [3]+13 p. il. 4° † Mines Bureau, Pittsburgh, Pa., 15213
- 20506 6530. Cost estimates of processes for separating mixtures of methane and hydrogen [with list of references]; by W. Mulvihill [and others]. [1964.] [2]+ii+43 p. il. 4° † Mines Bureau, Pittsburgh, Pa., 15213
- 20507 6531. Specific-gravity to oil-yield relationships for black shales of Kentucky's New Albany formation [with list of references]; by John Ward Smith and Neil B. Young. [1964.] [3]+13 p. il. 4° [Based on work done in cooperation with University of Wyoming.] † Mines Bureau, Pittsburgh, Pa., 15213
- 20508 6532. Flotation treatment of experimental iron ore tailing from Champion mine, Marquette Range, Mich.; by Roy T. Sorensen, A. F. Colombo, and D. W. Formmer. [1964.] [3]+13 p. il. 4° [Based on work done in cooperation with North Range Mining Co.] † Mines Bureau, Pittsburgh, Pa., 15213
- 20509 6535. Characteristics of products obtained by oxidation of anthracite with concentrated nitric acid [with list of references]; by M. H. Kersten, Jerry W. Ramsey, and G. A. Brady. [1964.] [3]+11 p. 4° † Mines Bureau, Pittsburgh, Pa., 15213
- 20510 6536. Effect of impurity levels on bircaloy 2 microstructure, mechanical properties, and corrosion rates; by H. Kato, D. J. Stoops and M. D. Carver. [1964.] [3]+20 p. il. 4° † Mines Bureau, Pittsburgh, Pa., 15213

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## Report of investigations—Continued

- 20511 6539. Rolled molybdenum single crystals, deformation textures, recrystallization, and transition temperature [with list of references]; by Robert Blickensderfer, R. Siemens, G. Asai, and H. Kato. [1964.] [2]+il+34 p. il. 4° [Based on work done in cooperation with Wah Chang Corporation, Albany, Oreg.] † Mines Bureau, Pittsburgh, Pa., 15213
- 20512 6541. Investigation of in situ rock stresses, Ruth mining district, Nev., with emphasis on slope design problems in open-pit mines [with list of references]; by David W. Wisecarver [and others]. [1964.] [3]+21 p. il. 4° [Based on work done in cooperation with Kennecott Copper Corp., Western Mining Div., Engineering Dept., Salt Lake City, Utah.] † Mines Bureau, Pittsburgh, Pa., 15213
- 20513 Salt; by William H. Kerns. [1964.] [2]+14 p. [Preprint from Minerals yearbook, 1963, v. 1.] \* Paper, 10c. I 28.37/a: Sa 37/963
- 20514 Sulfur and pyrites; by Clarence O. Babcock. [1964.] [2]+22 p. il. [Preprint from Minerals yearbook, 1963, v. 1.] \* Paper, 15c. I 28.37/a: Su 5/963
- 20515 Tin; by John E. Shelton. [1964.] [2]+22 p. [Preprint from Minerals yearbook, 1963, v. 1.] \* Paper, 15c. I 28.37/a: T 49/963
- 20516 Tungsten; by Richard F. Stevens, jr. [1964.] [2]+14 p. il. [Preprint from Minerals yearbook, 1963, v. 1.] \* Paper, 10c. I 28.37/a: T 834/963
- 20517 Water; by William H. Kerns. [1964.] [2]+12 p. [Preprint from Minerals yearbook, 1963, v. 1.] \* Paper, 10c. I 28.37/a: W 29/963

## NARCOTICS BUREAU, Treasury Dept. Washington, D.C. 20220

- 20518 Prevention and control of narcotic addiction. 1964. 32 p. il. \* Paper, 15c. ● Item 967 T 56.2: N 16/4/964

## NATIONAL AERONAUTICS AND SPACE ADMINISTRATION Washington, D.C. 20546

### NASA contractor report CR (series).

NAS 1.26: (nos.)

- 20519 75. Laser materials, tutorial review with bibliography [and list of references cited]; by James E. Bradley. Oct. 1964. cover title, vii+1-23d, 24-288 p. il. 4° [Prepared under grant NsG-74-60 by Ohio State University, Columbus, Ohio.] Φ Paper, \$4.00. L.C. card 64-62900
- 20520 85. Silver-cadmium battery development program; by James M. Rice. Sept. 1964. cover title, [1]+x+211 p. il. 4° [Prepared under contract NAS5-1431 by Telecomputing Corp., Denver, Colo.] Φ Paper, \$3.50. L.C. card 64-62903
- 20521 86. Adaptive-predictive modeling of nonlinear processes [with bibliographies]; by P. M. DeRusso [and others]. Sept. 1964. cover title, iii+173 p. il. 4° [Prepared under grant NsG-244-62 by Rensselaer Polytechnic Institute, Troy, N.Y.] Φ Paper, \$3.00. L.C. card 64-62901
- 20522 89. Geometrical and inertial properties of class of thin shells of revolution [with list of references]; by Will J. Worley and Han-chang Wang. Sept. 1964. cover title, v+208 p. il. 4° [Prepared under grant NsG-434 by University of Illinois, Urbana, Ill.] Φ Paper, \$3.50. L.C. card 64-62968
- 20523 90. Measurement and interpretation of ordinary power spectra for vibration problems [with list of references]; by Allan G. Pierson. Sept. 1964. cover title, viii+130+[16] p. il. 4° [Prepared under contract NAS 5-4590 by Measurement Analysis Corporation, Los Angeles, Calif.] Φ Paper, \$2.75. L.C. card 64-62898
- 20524 95. Utilization of acceptance data in descriptive model for determining man's role in a system [with list of references]; by Harold E. Price, Ewart E. Smith, and Richard A. Behan. Sept. 1964. cover title, [1]+x+159 p. il. 1 pl. 4° [Prepared under contract NAS 2-1346 by Serendipity Associates, Sherman Oaks, Calif.] Φ Paper, \$3.00. L.C. card 64-62899

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- 20525 98. World atlas of photography from Tiros satellites I to IV [with list of references]; by J. B. Bird, A. Morrison, and M. C. Chown. Sept. 1964. cover title, iv+152 p. il. 4° [Prepared under contract NASr-140 by McGill University, Montreal, Quebec.] Φ Paper, \$3.00. L.C. card 64-62902.
- 20526 104. Probability of collision for momentum transfer of slow electrons in nitrogen plasma afterglow [with list of references]; by Joseph Ajello. Oct. 1964. cover title, v+54 p. il. 4° [Prepared under grant NSG-48-50 by Rensselaer Polytechnic Institute, Troy, N.Y.] Φ Paper, \$1.50.
- 20527 106. Uniform-stress spinning filamentary disk [with list of references]; by A. C. Kyser. Oct. 1964. cover title, iii+20 p. il. 4° [Prepared under contract NASw-652 by Astro Research Corporation, Santa Barbara, Calif.] Φ Paper, 75c.
- 20528 107. Decay of strong plane shocks in ideal gas [with list of references]; by Pei Chi Chou, Robert R. Karpp, and Lawrence J. Zajac. Sept. 1964. cover title, [1]+iv+43+[2] p. il. 4° [Prepared under grant NSG-270-63 by Drexel Institute of Technology, Philadelphia, Pa.] Φ Paper, \$1.25.
- 20529 108. Theoretical and experimental study of superconducting magnetically-supported spinning body [with list of references]; by Roger D. Bourke. Oct. 1964. cover title, viii+127 p. il. 4° [Prepared under grant NSG-133-61 by Standard University, Stanford, Calif.] Φ Paper, \$2.75. L.C. card 64-62969
- 20530 109. Real-time compensation for tropospheric radio refractive effects on range measurements [with list of references]; by J. J. Freeman. Oct. 1964. cover title, [1]+v+18 p. il. 4° [Prepared under contract NAS5-1404 by J. J. Freeman Associates, Inc., Silver Spring, Md.] Φ Paper, 75c.
- 20531 110. Three body problems; by C. G. Lemaitre. Oct. 1964. cover title, x+40 p. 4° [Prepared under grant NSG-243-62 and NSG-122-61 by University of California, Berkeley, Calif.] Φ Paper, \$1.25. L.C. card 64-62905
- 20532 111. Algebraic structure of N-body problem [with list of references]; by L. M. Rauch. Oct. 1964. cover title, vii+32 p. 4° [Prepared under grant NSG-413 by Seton Hall University, South Orange, N.J.] Φ Paper, \$1.00. L.C. card 64-62904

20533 NASA educational publications. Sept. 1964. 8 p. narrow 8° ([Office of Educational Programs and Services.]) † ● Item 830-J

NAS 1.9/2: Ed 8/964-2

NASA facts. [Educational services publication of Division of Educational Programs and Services.] ● Item 830-H

- 20534 F-12-62. Alouette, Canada's first satellite. [Revised] 1964. [1964.] 1 sheet, il. oblong f° [Designed for bulletin-board display uncut, or 6 p. il. 4° for looseleaf notebook insertion when cut along dotted lines and folded along solid lines.] \* Paper, 15c. NAS 1.20: F-12-62/2
- 20535 v. 2, no. 4. Explorer XVI, micrometeoroid satellite. 1964. 1 sheet, il. f° [Designed for bulletin board display uncut, or 4 p. il. 4° for looseleaf notebook insertion when cut along dotted lines and folded along solid lines. Replaces NASA facts A-1-63.] \* Paper, 10c. NAS 1.20: 2/4

NASA SP-(series). ● Item 830-I

NAS 1.21: (nos.)

- 20536 47. Space-cabin atmospheres: pt. 1. Oxygen toxicity, literature review [with list of references]; by Emmanuel M. Roth. 1964. vii+51 p. il. 4° (Scientific and Technical Information Division.) [Prepared under contract by Lovelace Foundation for Medical Education and Research, Albuquerque, N. Mex.] \* Paper, 40c. L.C. card 64-62907
- 20537 50. AAS-NASA symposium on physics of solar flares, proceedings of symposium held at Goddard Space Flight Center, Greenbelt, Md., Oct. 28-30, 1963 [with list of references]; edited by Wilmot N. Hess. 1964. viii+[1]+465 p. il. 4° (Scientific and Technical Information Division.) \* Paper, \$3.25. L.C. card 64-62807
- 20538 51. Proceeding of 4th National Conference on Peaceful Uses of Space, held in Boston, Mass., Apr. 29-May 1, 1964. 1964. vi+225 p. il. 4° \* Paper, \$1.50. L.C. card 61-62454
- 20539 7011(02). Aerospace medicine and biology, continuing bibliography, selection of annotated references to unclassified reports and journal articles that were introduced into NASA information system June-July 1964. Sept. 1964. [2]+iv+67+67 p. 4° (Scientific and Technical Information Division.) [Compiled in cooperation with Aerospace Medicine and Biology Bibliography Project (AMBBP) of Library of Congress and American Institute of Aeronautics and Astronautics.] Φ Paper, \$1.00. (Not sent to Depository Libraries.) L.C. card 64-62433

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## NASA SP-(series)—Continued

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L.C. card 64-62908
- 20541 7013. NASA publications manual [with list of references; by Ida Young and others]. 1964. vi+74 p. 4° (Scientific and Technical Information Division.) \* Paper, 45c.  
L.C. card 64-62909

NASA tech briefs. [Issued by Office of Technology Utilization Division to acquaint industry with technical content of innovation derived from NASA space program. Issued with perforations.] † NAS 1.29: (nos.)

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## NASA technical memorandum TM (series).

- 20566 X-1013. NASA research on materials applicable to supersonic transports [with list of references]; by Herbert F. Hardrath and George J. Heimerl. Oct. 1964. cover title, [1]+12+[2] p. il. 4° \* Paper, 50c.  
NAS 1.15: X-1013

## NASA technical note TN (series).

NAS 1.14: D-(nos.)

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- 20612 D-2489. Longitudinal characteristics of several configurations at hypersonic Mach numbers in conical and contoured nozzles [with list of references]; by James P. Arrington, Roy C. Joiner, jr., and Arthur Henderson, jr. Sept. 1964. cover title, [1]+72+[1] p. il. 4°  $\Phi$  Paper, \$2.00.
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- 20622 F-217. Transactions of meeting of 11th General Conference on Weights and Measures, Oct. 11-20, 1960, Paris, France. Sept. 1964. cover title, xi+197 p.+[2] leaves, 4° [From Comptes rendus des seances de la 11th Conference Generale des Poids et Mesures, Paris, Oct. 11-20, 1960.]  $\Phi$  Paper, \$3.50.
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- 20624 F-227. Velocity of corpuscular streams in solar corona based on observations of solar radio emission [with bibliography]; by I. G. Moiseyev. Oct. 1964. cover title, [1]+21+[1] p. il. 4° [From Izvestiya Krymskoy Astrofizicheskoy Observatorii, v. 24, 1960.]  $\Phi$  Paper, 75c.
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- 20628 F-240. Spiral motion of electrically conductive gas between coaxial permeable cylinders in presence of longitudinal magnetic field [with list of references]; by I. B. Chekmarev and I. I. Shakhnov. Sept. 1964. cover title, [1]+7+[2] p. il. 4° [From Zhurnal prikladnoy mekhaniki i tekhnicheskoy fiziki, no. 6, 1963.]  $\Phi$  Paper, 50c.
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- 20630 F-242. Flow of electrically conductive fluid in plane magnetohydrodynamic channel [with list of references]; by I. P. Zimin. Sept. 1964. cover title, [1]+9+[2] p. il. 4° [From Zhurnal prikladnoy mekhaniki i tekhnicheskoy fiziki, no. 6, 1963.]  $\Phi$  Paper, 50c.

- 20631 10th semiannual report to Congress, July 1-Dec. 31, 1963. [1964.] xiv+231 p. il. [Also issued as H. doc. 355, 88th Cong., 2d sess.] \* Paper, \$1.00.  $\bullet$  Item 803-A  
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- 20632 National archives accession, no. 58. Sept. 1964. cover title, 24 p. 4°  
([Publication 65-1.]) [Supplement to National archives guide. In-  
cludes accessions for July 1, 1962-June 30, 1963.] †  
L.C. card A 48-1277 GS 4.8: 58

**Preliminary inventories. †**

**GS 4.10: (nos.)**

- 20633 160. Preliminary inventory of records of Smaller War Plants Corporation (rec-  
ord group 240); compiled by Katherine H. Davidson. 1964. viii+88+  
[2] p. il. 4° ([National Archives publication 65-2.])  
L.C. card A 64-7235
- 20634 161. Preliminary inventory of records of Bureau of Census (record group 29):  
compiled by Katherine H. Davidson and Charlotte M. Ashby. 1964.  
ix+141 p. 4° ([National Archives publication 65-3.])  
L.C. card A 64-7421
- 20635 162. Preliminary inventory of records of 1961 inaugural committee (record  
group 274); compiled by Marion M. Johnson. 1964. vii+18 p. 4°  
([National Archives publication 65-5.])  
L.C. card A 64-7599

**NATIONAL BUREAU OF STANDARDS, Commerce Dept.  
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- 20636 Directory of standards laboratories in United States; prepared by National  
Conference of Standards Laboratories. Preliminary edition. Oct. 12,  
1964. cover title, 44 p. oblong 12° [Text on p. 2-3 of cover.] †  
C 13.2: St 2/2

**Handbook. ● Item 245**

- 20637 44. 1964 replacement sheets [Specifications, tolerances, and regulations for  
commercial weighing and measuring devices adopted by National Confer-  
ence on Weights and Measures], 2d edition, 1955. [1964.] [24] p. 12°  
[Issued in loose-leaf form.] † C 13.11: 44/2/rep.-2/rev. pages 964

**Miscellaneous publication. ● Item 247**

- 20638 260-2. Standard reference materials, preparation of NBS copper-base spectro-  
chemical standards [with list of references; by] Robert E. Michaelis,  
LeRoy L. Wyman, and Richard Flitsch. Oct. 15, 1964. vi+36 p. il. 4°  
\* Paper, 35c.  
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**Monographs. ● Item 247-A**

**C 13.44: (nos.)**

- 20639 78. Complete mode sum for LF, VLF, ELF terrestrial radio wave fields [with  
list of references; by] J. Ralph Johler and Leslie A. Berry. Oct. 1, 1964.  
[2]+22 p. il. 4° [Paper was presented at VLF symposium, Boulder, Colo.,  
Aug. 12, 1963.] \* Paper, 20c.  
L.C. card 64-60055
- 20640 85. Study of lunar surface radio communication [with list of references; by]  
L. E. Vogler. Sept. 14, 1964. iii+126 p. il. 4° \* Paper, 70c.  
L.C. card 64-60070

**Technical notes. ● Item 249-A**

**C 13.46: (nos.)**

- 20641 223. Concerning theory of radiation from slotted conducting plane in plasma  
environment [with list of references; by] James R. Wait. Sept. 28, 1964.  
iii+14 p. 4° \* Paper, 20c.
- 20642 247. Survey of magnetic thin film materials [with selected bibliography; by]  
George W. Reimherr. Sept. 25, 1964. [1]+55 p. 4° \* Paper, 40c.  
L.C. card 64-62910
- 20643 250. Nomogram for computing  $\frac{a+jb}{c+jd}$  and nomogram for computing  $\frac{a+jb}{c+jd}$  [with  
list of references; by] Howard S. Bowman. Oct. 2, 1964. iii+13 p. il. 4°  
\* Paper, 15c.

**NATIONAL GUARD BUREAU, Defense Dept.  
Washington, D.C. 20310**

**NGB pamphlets. ● Item 358**

**D 12.8: (nos.)**

- 20644 44-3. Announcement of winners, National Rifle Association indoor rifle tourna-  
ment [for period Oct. 1, 1962-Mar. 1, 1963]. July 30, 1964. cover  
title, [2]+10 p. il. 4° (Departments of Army and Air Force.) [Issued  
with perforations. Supersedes NGB pamphlet 44-3, Aug. 15, 1962.] †

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- 20645 44-6. Announcement of winners, Eisenhower trophy [calendar year 1963]. [July 30, 1964.] cover title, [1]+8+[1] p. il. 4° (Departments of Army and Air Force.) [Issued with perforations. Supersedes NGB Pamphlet 44-6, Jan. 15, 1964]. ‡

**NATIONAL INSTITUTES OF HEALTH, Health, Education, and Welfare Dept., Bethesda, Md. 20014**

- 20646 Cancer rates and risks [with bibliography; prepared by Demography Section, Biometry Branch, National Cancer Institute]. [1964.] vii+93 p. il. ([Public Health Service publication 1148.]) [Revision of Extent of cancer illness in United States, Public Health Service publication 547.] \* Paper, 40c. ● Item 507  
L.C. card 64-62886 FS 2.22: C 16/23
- 20647 Cardiovascular research in Israel, report of discussions of cardiovascular research opportunities in Israel by group of medical research scientists from United States and Israel, Tel-Aviv, Israel, Sept. 2-14, 1962 [with list of references; prepared by Henry N. Newfeld and J. Franklin Yeager]. [1964.] ix+82 p. ‡ ● Item 507  
L.C. card 64-62854 FS 2.22: C 17/5
- 20648 Directory of State mental health personnel and regional offices of Department of Health, Education, and Welfare: [prepared by Mildred Arrill and Shirley Mannon]. Revised [Aug. 1, 1964]. [1964.] [6]+109 p. 4° ([Public Health Service publication 1206; National Institute of Mental Health], National clearinghouse for mental health information.) [Issued with perforations.] \* Paper, \$1.00 ● Item 507  
L.C. card 64-62280 FS 2.22: M 52/40/964-2
- 20649 End results in cancer, report 2 [with list of references]: prepared for End Results Group by Clinical Biometry Section, National Cancer Institute. [1964.] iii+122 p. il. 4° ([Public Health Service publication 1149.]) [End results evaluation program is in part supported by contracts with National Cancer Institute, Public Health Service.] \* Paper, 75c. ● Item 507  
L.C. card 64-62894 FS 2.22: C 16/24/rp. 2
- 20650 Proceedings, Conference on Collection of Statistics of Severe Hearing Impairments and Deafness in United States [Bethesda, Md., Mar. 19-20] 1964. [1964.] iii+58 p. 4° ([Public Health Service publication 1227]: National Institute of Neurological Diseases and Blindness.) \* Paper, 40c. ● Item 507  
L.C. card 64-62893 FS 2.22: H 35/10
- Resources analysis memo. ● Item 507-W
- 20651 6. Trends in graduate enrollment and Ph. D. output in scientific fields at 100 leading institutions 1961-62 and 1962-63; prepared by Resources Analysis Branch Office of Program Planning. Oct. 1964. 19 p. il. 4° ‡  
FS 2.22/35: 6
- 20652 Veterans with mental disorders resident in Veterans Administration hospitals, Oct. 31, 1962 (based on variable percentages): prepared by National Institute of Mental Health, Biometrics Branch, Hospital Studies Section. [1964.] 41 p. 4° (Public Health Service [publication 1115.]) ‡ ● Item 507  
L.C. card 62-61654 FS 2.22: V 64/962

**NATIONAL MUSEUM, Smithsonian Institution  
Washington, D.C. 20560**

Bulletins. ● Item 919

SI 3.3: (nos.)

- 20653 230. Bark canoes and skin boats of North America [with bibliography; by] Edwin Tappan Adney and Howard I. Chapelle. 1964. xiv+[1]+242 p. il. 4° (Museum of History and Technology.) \* Cloth, \$3.25.  
L.C. card 64-62636

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## Bulletins—Continued

- 20654 240. Screw-thread cutting by master-screw method since 1480; [by] Edwin A. Battison. 1964. cover title, [1]+106-120 p. il. 4° (Contributions from Museum of History and Technology, paper 37.) \* Paper, 20c.  
L.C. card 64-62938

## Proceedings of National Museum. † ● Item 922 SI 3.6: (nos.)

- 20655 3475. Moths of family Acrolophidae in America north of Mexico (*Microlepidoptera*) [with list of references]; by Frank F. Hashrouck. 1964. v. 114, cover title, p. 487-706, il.  
20656 3494. Review of ophioid fish genus *Oligopus* with description of new species from west Africa [with list of literature cited]; by Daniel M. Cohen. 1964. v. 116, cover title, p. 1-22 5 pl.  
20657 3495. North American Stenomidae (*Lepidoptera*: *Gelechioidea*) [with list of literature cited]; by W. Donald Duckworth. 1964. v. 116, cover title, p. 23-71, il. 4 pl.  
20658 3498. One new species and 2 redescriptions of catfishes of South American callichthyid genus *Corydoras* [with list of literature cited]; by Stanley H. Weitzman. 1964. v. 116, cover title, p. 115-126, il.  
20659 3499. Osteology and relationships of South American chanacid fishes of sub-families Lebiasininae and Erythrininae with special reference to subtribe *Nannostomia* [with list of literature cited]; by Stanley H. Weitzman. 1964. v. 116, cover title, p. 127-169, il. 4°

NATIONAL PARK SERVICE, Interior Dept.  
Washington, D.C. 20242

## Archeological research series.

- 20660 8. Excavations in 17th century Jumano Pueblo Gran Quivira [with list of references cited, by] Gordon Vivian; with chapter on Artifacts from Gran Quivira, [by] Sallie Van Valkenburgh. [1964.] x+168 p. il. 4° \* Paper, \$1.25. ● Item 646-A  
L.C. card 64-62958 I 29.59: 8  
20661 Boating regulations in national park system. [Aug. 1964.] cover title, 28 p. narrow 8° [Title 36, Code of Federal regulations, pts. 1 and 2. Also published in Federal register, July 8, 1964.] \* Paper, 20c. ● Item 656  
I 29.9: B 63  
20662 Fort Davis National Historic Site, Tex. [Revised 1964.] [1964.] [12] p. il. narrow 8° \* Paper, 10c. ● Item 650  
I 29.21: F 77da/964  
20663 George Washington Birthplace National monument, colonial garden. [1964.] [2] p. il. oblong 8° folded into narrow 8° size. † ● Item 650  
I 29.21: G 29/4/964  
20664 Point Reyes National Seashore, Calif. [June 1964.] [2] p. large 4°, folded into narrow 8° size. \* Paper, 10c. ● Item 651  
I 29.6/2: P 75/964  
20665 1st World Conference on National Parks, proceedings of Conference organized by International Union for conservation of Nature and Natural Resources, cosponsored by United Nations Educational, Scientific and Cultural Organization, United Nations Food and Agriculture organization. [1964.] [2] p. il. oblong 8° folded into narrow 8° size. † ● Item 650  
tion, National Park Service, Natural Resources Council of America, Seattle, Wash., June 30-July 7, 1962; edited by Alexander B. Adams. [1964.] xxxiv+471 p. il. \* Paper, \$1.75. ● Item 648  
L.C. card 64-62876 I 29.2: P 21/13

NATIONAL RAILROAD ADJUSTMENT BOARD  
Washington, D.C. 20572

- 20666 Awards 11731-790, 3d division, v. 121. Champlin-Shealy Company, Chicago, Ill. [1964.] [1]+995 p. † National Railroad Adjustment Board, Chicago, Ill. (Price upon application).  
L.C. card 36-26212 RA 1.9: 121

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**NATIONAL SCIENCE FOUNDATION**  
Washington, D.C. 20550

- 20667 American science manpower, 1962, report of National Register of Scientific and Technical Personnel; [prepared in Office of Economic and Manpower Studies]. [June 1964.] vii+155 p. il. 4° (NSF 64-16.) \* Paper, \$1.00. ● Item 834-I  
\* Paper, 50c. ● Item 834-X  
L.C. card 60-60139 NS 1.14/2: 962
- 20668 Science course improvement projects: College and university, secondary school, elementary school, courses, written materials, films, studies, mathematics, sciences, engineering. July 1964. vi+77 p. 4° (NSF 64-8; [SPE 64-E-1].) [Text and illustrations on front and back cover.] \* Paper, 50c. ● Item 834-X  
L.C. card 64-62769 NS 1.24: 964

**NAVAL OCEANOGRAPHIC OFFICE, Defense Dept.**  
Washington, D.C. 20350

- Publications. ● Item 378 (Rev. 1957) D 203.22: (nos.)
- 20669 17. Change 8, Aug. 22, 1964, looseleaf change pages for correcting Sailing directions for east Greenland and Iceland, 2d edition, 1951. 1964. [184] p. il. 4° [Formerly no. 75. Includes list of effective pages. Issued in loose-leaf form.] † Paper, 35c.
- 20670 30. Change 1, Aug. 22, 1964, loose leaf change pages for correcting Sailing directions for Ireland, 5th edition, 1962. 1964. [58] p. il. 4° [Formerly no. 146. Includes list of effective pages.] † Paper, 35c.
- 20671 31. Change 8, Aug. 15, 1964, loose leaf change pages for correcting Sailing directions for south coast of England, 4th edition, 1952. 1964. [138] p. il. 4° [Formerly no. 144. Includes list of effective pages.] † Paper, 35c.
- 20672 34. Change 9, Aug. 8, 1964, loose leaf change pages for correcting Sailing directions for north and east coasts of Scotland, 3d edition, 1950. 1964. [138] p. il. 4° [Formerly no. 149. Includes list of effective pages.] † Paper, 35c.
- 20673 64. Change 9, Sept. 5, 1964, loose leaf change pages for correcting Sailing directions for Bay of Bengal, 4th edition, 1951. 1964. [144] p. il. 4° [Formerly no. 160. Includes list of effective pages. Issued in loose-leaf form.] † Paper, 35c.
- 20674 111A. Change 4, Aug. 22, 1964, list of lights and fog signals, east coast of North and South America (excluding continental U.S.A.) and West Indies. 1964. [118] p. 4° [Includes list of effective pages and Notice to mariners 34, 1964. Issued in loose-leaf form.] † Paper, 50c.
- 20675 117A. Change 5, Sept. 12, 1964, to Radio navigational aids, Atlantic and Mediterranean area. 1964. [77] p. il. 4° [Includes list of effective pages and Notice to mariners 37, 1964. Issued in loose-leaf form.] † Paper, 50c.
- 20676 117B. Change 5, Aug. 22, 1964 to Radio navigational aids Pacific and Indian Oceans area. 1964. [89] p. il. 7 maps, 4° [Includes list of effective pages and Notice to mariners 34, 1964. Issued in loose-leaf form.] † Paper, 50c.
- 20677 118A. Change 2, Aug. 15, 1964, to radio weather aids; Atlantic and Mediterranean area. 1st edition. 1964. [112] p. il. 4° [Includes list of effective pages and Notice to mariners, no. 33, Aug. 15, 1964. Issued in loose-leaf form.] † Paper, 50c.

**NAVAL PERSONNEL BUREAU, Defense Dept.**  
Washington, D.C. 20370

- 20678 Basic electronics, trainee's guide for fire control technician training, v. 1. Sept. 1964. cover title, iii-xxiii+1-346 p. il. 4° (NAVPERS 93371.) [Preliminary copy.] ‡ ● Item 404  
L.C. card 64-62962 D 208.11/2: El 2/10/v.1
- 20679 — v. 2. Sept. 1964. cover title, p. 347-610, il. 4° (NAVPERS 93371.) [Preliminary copy.] ‡ ● Item 404  
L.C. card 64-62962 D 208.11/2: El 2/10/v.2

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# GOVERNMENT PUBLICATIONS

- 20680 Basic music; [prepared by Navy Training Publications Center and Naval School of Music.] [Original edition 1956, reprinted with changes 1964.] cover title, vi+188 p. il. 4° (Navy training course; NAVPERS 15667-C.) [Includes music.] \* Paper, \$1.00. ● Item 404  
L.C. card 64-62884 D 208.11: M 97/964
- 20681 Boolean algebra. June 1, 1964. cover title, vi+269 p. il. 4° (NAVPERS 92901.) [Training manual for use in special technology instruction in Naval Guided Missiles School, Dam Neck, Va.] † ● Item 404  
L.C. card 64-62885 D 208.11/2: A13
- 20682 Education and training; [prepared by Navy Training Publication Center]. [3d edition 1964.] 1964. iii+149 p. il. 4° (NAVPERS 10827-B). † ● Item 404  
L.C. card 64-62828 D 208.11/2: Ed 8/964
- 20683 Fire control radar special circuits, information, experiments and applications, v. 2. 1964. cover title, xv+100 p. il. 4° (NAVPERS 92213A.) [Page numbers 99 and 100 are both assigned to one page.] † ● Item 404  
L.C. card 64-60882 D 208.11/2: F 51/6/964/v.2
- 20684 Fire control technician 1 & C [with reading list; prepared by Naval Training Publications Center]. [1964 edition.] [1964.] cover title, iv+331 p. il. 4° (Navy training course; NAVPERS 10175.) † ● Item 404  
L.C. card 64-62892 D 208.11: F 51/2/964
- Fundamentals of electronics. July 1964. ● Item 404  
D 208.11/2: El 2/9/v. (nos.)
- 20685 v. 1. Basic electricity. cover title, [2]+362 p. il. 4° (NavPers 93400-1.) \* Stiff board, \$2.75.  
L.C. card 64-62826
- 20686 v. 2. Power supplies and amplifiers. cover title, [2]+156 p. il. 4° (NavPers 93400-2.) \* Stiff board, \$1.75.  
L.C. card 64-62826
- 20687 v. 3. Transmitter circuit applications. cover title, [2]+138 p. il. 4° (NavPers 93400-3.) \* Stiff board, \$1.50.  
L.C. card 64-62826
- 20688 v. 4. Receiver circuit applications. cover title, [2]+200 p. il. 4° (NavPers 93400-4.) \* Stiff Board, \$2.00.  
L.C. card 64-62826
- 20689 v. 5. Oscilloscope circuit applications. cover title, [2]+133 p. il. 4° (NavPers 93400-5.) \* Stiff board, \$1.50.  
L.C. card 64-62826
- 20690 v. 6. Microwave circuit applications. cover title, [2]+123 p. il. 4° (NavPers 93400-6.) \* Stiff board, \$1.50.  
L.C. card 64-62826
- 20691 v. 7. Electromagnetic circuits and devices. cover title, [2]+81 p. il. 4° (NavPers 93400-7.) \* Stiff board, \$1.50.  
L.C. card 64-62826
- 20692 v. 8. Tables and master index. cover title, [2]+162 p. il. 4° (Nav Pers 93400-8.) \* Stiff board, \$1.75.  
L.C. card 64-62826
- 20693 Industrial relations [with bibliography, citations, and executive orders; prepared by Navy Training Publications Center]. [1st edition 1956, completely revised 1964.] 1964. cover title, iii+237 p. il. 4° (NAVPERS 10793-B.) \* Paper, \$1.50. ● Item 404  
L.C. card 60-64518 D 208.11/2: In 27/964
- 20694 List of training manuals and correspondence courses. Aug. 1964. [1]+ii+47 p. 4° (NAVPERS 10061-U.) [Revised semiannually.] † ● Item 401-A  
L.C. card 59-60829 D 208.15: T 68/964/2
- 20695 Machinist's mate, 1 & C [with reading list; prepared by Navy Training Publications Center]. [1st edition 1953, major revision 1964.] [1964.] cover title, v+253 p. il. 4° (Navy training course, NAVPERS 10525-B.) \* Paper, \$1.50. ● Item 404  
L.C. card 64-62921 D 208.11: M 18/2/964

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- 20696 Manual of enlisted classification procedures. [1964.] cover title, 70+[48] p. il. 4° (NAVPERS 15812A.) [Replaces Sept. 1951 edition.] ‡  
● Item 403-A  
L.C. card 64-62853 D 208.6/3: C56/3
- 20697 Photographer's mate 1 & C [with reading list; produced by Navy Training Publications Center]. [1964 edition.] [1964.] cover title, v+486 p. il. 4° (Navy training course; NAVPERS 10375-A.) [Contains copy-right material.] \* Paper, \$2.75. ● Item 404  
L.C. card 64-62897 D 208.11: P 56/5/964
- 20698 United States Naval Academy, admissions, regulations, 1965. [1964.] [6]+42 p. (NAVPERS 15010.) [Supersedes all regulations and in-structions previously issued under similar title]. ‡ ● Item 392  
L.C. card 9-35730 D 208.108: 965
- 20699 Utilitiesman 1 & C [with reading list; prepared by Navy Training Publi-cation Center]. [Original edition 1951, revised 1964.] [1964.] cover title, iv+240 p. il. 4° (Navy training course; NAVPERS 10657-C.) ‡  
● Item 404  
L.C. card 64-62895 D 208.11: Ut 3/2/964

NAVAL RESEARCH OFFICE, Defense Dept.  
Washington, D.C. 20390

- 20700 Naval Training Device Center, index of publications. [1964.] cover title, [115] p. 4° (NAVELOS P-1480, revised July 1964.) [Issued with per-forations. Supersedes June 1963 issue.] ‡ D 210.14/2: P 96/964
- Naval Training Device Center, Port Washington, N.Y.: Technical report NAVTRADEVCCN (series). ‡ D 210.14: (nos.)
- 20701 1H-13. Effects of stimulus and field size on accuracy of orientation in homo-geneous environment [with list of references; by] Milton S. Katz, Wil-liam Metlay, Paul A. Cirincione. July 1964. cover title, v+25 p. il. 4° (Communications Psychology Division, Human Factors Laboratory.) [Text on p. 2 of cover.]
- 20702 1H-15. Biological effects of lasers, safety recommendations and comment on concept of ocular damage [with list of references; by] Paul A. Cirin-cione. July 28, 1964. [2]+1+10 p. 4° (Communications Psychology Division, Human Factors Laboratory.)
- 20703 789-3. Response and feedback techniques for automated training of visual identification skills [with list of references; by] Alexander Z. Weisz, Linda S. McElroy, Bolt Beranek and Newman Inc., Cambridge, Mass. July 1964. [2]+iii+27+[1] p. il. 4° (Contract N61339-789.)
- 20704 1208-1. Investigation of step size and error rate in programmed instruction [with list of references; by] David J. Klaus, American Institute for Research, Pittsburgh, Pa. July 1964. cover title, vii+99+[1] p. il. 4° (Con-tract N61339-1208.) [Text on p. 2 of cover.] ‡
- 20705 1303-1. Effect of various modes of rehearsal [rehearsal] on short-term recall [with list of references; by] Mary Eleanor Lewis, [and] Warren H. Teichner. June 11, 1964. cover title, iv+22 p. il. 4° (Institute of Environ-mental Psychophysiology, University of Massachusetts, Amherst, Mass., contract N61339-1303.) [Text on p. 2 of cover.]
- 20706 1303-2. Perception and short term memory under work load stress [with list of references; by] Robert Seibel, Richard E. Christ [and] Warren H. Teichner. June 11, 1964. cover title, iv+28 p. il. 4° (Institute of Environmental Psychophysiology, University of Massachusetts, Amherst, Mass.; contract N61339-1303.) [Text on p. 2 of cover.]
- 20707 1445-1. Procedures and research planning for anti-air warfare training program [with list of references; by] E. C. Weiss, K. A. Lawrence, J. A. Scopino. Sept. 1964. cover title, v+76+[1] p. il. 4° (Matrix Corporation, Arlington, Va.; contract N61339-1445.) [Text on p. 2 of cover.]

NRL reports. (Naval Research Laboratory.) D 210.8: (nos.)

- 20708 5974. NABUR, NAREC assembler for Burroughs D825 modular data-processing computer [with list of references; by Robert M. Mason and Irene G. Fishman. Jan. 13, 1964. cover title, i+49+[1] p. il. 4° (NAREC reference 30.) Φ Xerox reproduction, \$5.60 (AD 436 591).

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**NRL reports—Continued**

- 20709 6020. Study of autophobic liquids on platinum by contact potential method [with list of references; by] C. O. Timmons and W. A. Zisman. Feb. 13, 1964. cover title, 1+10+[2] p. il. 4° ([NRL problem C02-10, subproject RR 001-01-43-4751.])  $\Phi$  Xerox reproduction, \$1.60 (AD 433 796).
- 20710 6035. Force-area study of mixed films of trypsin and ovomucoid (with list of references; by] J. D. Bultman and J. M. Leonard. Feb. 17, 1964. cover title, 1+9+[2] p. il. 4° ([NRL problem C03-01, subproject RR 007-08-44-5503.])  $\Phi$  Xerox reproduction, \$1.60 (AD 433 674).
- 20711 6044. System for measuring Seebeck coefficient and resistivity [with list of references; by] J. E. Ivory. Feb. 19, 1964. cover title, 11+[1] p. il. 4° ([NRL problem E02-02, projects RR 010-01-44-5601 and SF 013-06-29-2957.])  $\Phi$  Xerox reproduction, \$1.60 (AD 433 673).
- 20712 6049. Decay prediction of 1963-21 using naval space surveillance system observations; [by] R. Brescia, D. Ballou, and R. Zirm. Mar. 2, 1964. cover title, 7+4+[2] p. il. 4° ([NRL problem R02-35, project RT 8801-001/6521/5434-00-01.]) [Text on p. 2 of cover.]  $\Phi$  Xerox reproduction, \$1.60 (AD 435 551).
- 20713 Training device guide. Revised July 1, 1964. [1964.] ix+[92] p. il. 4° (NAVEXOS P-530-2; Naval Training Device Center, Port Washington, N.Y.) [Issued in loose-leaf form. Supersedes July 1, 1962 revision and change page notices 1-3.] †  
L.C. card 62-64530 D 210.14/2: T 68/964

**OUTDOOR RECREATION BUREAU, Interior Dept.  
Washington, D.C. 20240**

- 20714 Federal focal point in outdoor recreation. [1964.] cover title, 16 p. il. 16°  
\* Paper, 15c. ● Item 657-B-1 I 66.2: Ou 8/964

**PATENT OFFICE, Commerce Dept.  
Washington, D.C. 20230**

- 20715 American economic progress, the bar and patent system, text of address scheduled for delivery by Edward J. Brenner, Commissioner of Patents, before Indiana State Bar Association, Fort Wayne, Ind., Sept. 19, 1964. [1964.] 9 p. 4° † C 21.20: B 75/3

**Classification bulletin. ● Item 252**

- 20716 461. Class 352, Optics, motion pictures, containing classification definitions of above class established by Classification group of Patent Office by Classification order, dated Aug. 28, 1964. [Aug. 1964.] [2]+2+35 p. 4°  
\* Paper, 50c. C 21.3: 461
- 20717 Manual of patent examining procedure, 3d ed., change notice series 2-2 to 2-6. Apr. 6-Aug. 18, 1964. Each 1 p. or 2 p. 4° [Issued in loose-leaf form.] \* Paper, \$4.00 (including basic manual and supplementary material for an indefinite period); \$1.00 additional for foreign mailing.  
● Item 259 C 21.15: 961/ch.2-2 to 2-6

**POST OFFICE DEPARTMENT  
Washington, D.C. 20260**

- 20718 Address by John A. Gronouski, Postmaster General, at Civic Club luncheon, Bangor, Maine, Oct. 5, 1964. [1964.] 8 leaves, 4° (Information Service, General release 186.) † P 1.27: G 89/37
- 20719 Address by John A. Gronouski, Postmaster General, at dedication of Buffalo Post Office, Buffalo, N.Y., Oct. 10, 1964. [1964.] 9 leaves, 4° (Information Service; General release 188.) † P 1.27: G 89/38
- 20720 Address by John A. Gronouski, Postmaster General, at dedication of Omaha, Nebr., post office, Oct. 21, 1964. [1964.] 8 leaves, 4° (Information Service; General release 189.) † P 1.27: G 89/39
- 20721 Address by John A. Gronouski, Postmaster General, at University of Maine, Orono, Maine, Oct. 5, 1964. [1964.] 8 leaves, 4° (Information Service, General release 185.) † P 1.27: G 89/36

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- 20722 Address by John A. Gronouski, Postmaster General, civic luncheon, Reseda, Calif., Sept. 28, 1964. [1964.] 7 leaves, 4° (Information Service, General release 181.) † P 1.27: G 89/35
- 20723 Address by John A. Gronouski, Postmaster General, unveiling of design, Robert H. Goddard commemorative air mail stamp, Clark University, Worcester, Mass., Sept. 24, 1964. [1964.] 6 leaves, 4° (Information Service; General release 178.) † P 1.27: G 89/34
- 20724 [Commemorative stamp poster]: 5-cent American music commemorative postage stamp, available at your local post office, Oct. 16, 1964. 1964. 10.5 x 8 in. P 1.26/2: M 97
- 20725 — 5-cent homemakers commemorative postage stamp, available at your local post office Oct. 27, 1964. 1964. 10.5 x 8 in. P 1.26/2: H 75/3
- 20726 — 8-cent Robert H. Goddard commemorative air mail postage stamp, available at your local post office Oct. 6, 1964. 1964. 10.5 x 8 in. P 1.26/2: G 54

NOTE.—Commemorative stamp posters, which will be issued irregularly, are available on a subscription basis from the Superintendent of Documents, \$1.50 a yr.: 50c. additional for foreign mailing.

- 20727 Directory of post offices (with ZIP code numbers). [July 1964.] viii+568 p. 4° ([Publication 26; Bureau of Operations.]) [Revised annually.] \* Paper, \$2.75. ● Item 839 L.C. card 55-61389 P 1.10/4: 964
- Facilities handbook, series S. † ● Item 843 P 1.31/3: (nos.)
- 20728 11. Vehicle maintenance facility. [Revised edition.] [July 24, 1964.] cover title, [79] p. 4° [Includes Transmittal letter 6. Issued in loose-leaf form.]
- 20729 14. Vehicle maintenance at non personnel offices. [Revised edition.] [1964.] cover title, [43] p. 4° [Includes transmittal letter 3. Issued in loose-leaf form.]
- [Public information] PI—(series). † ● Item 837-B P 1.36/2: (nos.)
- 20730 18. What you should know about new dog repellent. Why is repellent necessary? Is it safe? How owner can help prevent dog bites? [Sept. 1964.] [5] p. il. narrow 8°
- 20731 19. How postal inspection service protects you against mail fraud. Sept. 1964. [24] p. il. narrow 8° (Chief Postal Inspector.)

# PRESIDENT OF UNITED STATES Washington, D.C. 20501

- 20732 Address by Esther Peterson, Special Assistant to the President for Consumer Affairs, before Consumers League of New Jersey, Oct. 5, 1964, Newark, N.J. [1964.] 19 leaves, 4° † 183 Executive Office Bldg., Washington, D.C., 20506 Pr 36.8: C 76/P 44/2
- 20733 Eastern Region Community Leaders' Conference, sponsored by President's Committee on Equal Employment Opportunity, June 10, 1964, Philadelphia, Pa. [1964.] [52] p. il. 4° [Text on p. 2-3 of cover.] † President's Committee on Equal Employment Opportunity, 3136 Department of Labor Bldg., Washington, D.C., 20210 ● Item 851-J L.C. card L 64-114 Pr 35.8: Em 7/C 73/3
- 20734 Methods of adjusting to automation and technological change, review of selected methods prepared for President's [Advisory] Committee on Labor-Management Policy; by Derek Bok and Max D. Kossoris. [1964.] cover title, [2]+33 p. il. 4° [Includes list of references in footnotes. Prepared with assistance of Office of Manpower, Automation, and Training and Bureau of Labor Statistics.] † President's Advisory Committee on Labor Management Policy, 3133 Labor Bldg., Washington, D.C., 20210. L.C. card 64-62883 Pr 35.8: L 11/Au 8/2

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PUBLIC DOCUMENTS DIVISION, Government Printing Office  
Washington, D.C. 20402

- 20735 For the reader on your holiday gift list. [1964.] [2] p. narrow f° folded into oblong 48° size. † ● Item 552 GP 3.22: G 36
- Price list PL (series). † ● Item 554 GP 3.9: (nos.)
- 20736 41. Insects, worms and insects harmful to man, animals, and plants; June 1964. 54th edition. [1964.] [1]+7 p. ll. L.C. card 25-27428
- 20737 59. Interstate commerce; Aug. 1964. 46th edition. [1964.] [2]+13 p. ll. L.C. card 25-26812
- 20738 81. Posters and charts; Sept. 1964. 13th edition. [1964.] [2]+4 p. L.C. card 51-60329

PUBLIC HEALTH SERVICE, Health, Education, and Welfare Dept.  
Washington, D.C. 20201

- Amebiasis, laboratory diagnosis. [1964.] ([Laboratory and Training Branches, Communicable Disease Center.]) ● Item 505-A
- 20739 Introduction, self-instructional course. cover title, 8 p. ll. 4° ([Publication 1187, introduction.]) [Text on p. 2-3 of cover.] \* Paper, 15c. L.C. card 64-62855 FS 2.60/7: Am 3/intro.
- 20740 pt. 1. Life cycle of *Entamoeba histolytica*, instructive communication [self-instructional lesson, with list of references.] vi+18 p. ll. 4° ([Publication 1187, pt. 1.]) [Text on p. 2-3 of cover.] \* Paper, 25c. L.C. card 64-62855 FS 2.60/7: Am 3/pt.1
- 20741 pt. 2. Identification of intestinal amebae, instructive communication, [self-instructional lesson, with list of references.] viii+58 p. ll. 4° ([Publication 1187, pt. 2.]) [Text on p. 2-3 of cover. Answer booklet, 7 p., inserted.] \* Paper, 65c. L.C. card 64-62855 FS 2.60/7: Am 3/pt.2
- 20742 pt. 3. Laboratory procedures, instructive communication, [self-instructional lesson, with list of references.] vi+64 p. ll. 4° ([Publication 1187, pt. 3.]) [Text on p. 2-3 of cover. Answer booklet, 7 p. ll., inserted.] \* Paper, 60c. L.C. card 64-62855 FS 2.60/7: Am 3/pt.3
- 20743 Analytical quality control service of Division of Radiological Health, inter-laboratory study of iodine-131 surveillance measurements in milk [with one reference; by] Marvin Rosenstein and Abraham S. Goldin. [1964.] [1]+128-131 p. ll. 4° [Reprint from Radiological health data, v. 5, no. 3, Mar. 1964.] † FS 2.90/a: Io 2/3
- 20744 Building for clean water, report on Federal incentive grants for municipal waste treatment and future construction needs, 1964. [1964.] [2]+12 +[2] p. ll oblong 24° ([Publication 867, revised 1964; Division of Water Supply and Pollution Control.]) \* Paper, 10c. ● Item 502-A L.C. card 62-64679 FS 2.64/6: 964
- 20745 Career opportunities in Public Health Service, Bureau of Medical Services. [Revised 1964.] [1964.] [4]+38+[2] p. ll. 4° ([Publication 1074.]) † ● Item 485 FS 2.2: M 46/964-2  
L.C. card 63-65232
- 20746 Directory of local health units, 1964. [1964.] vi+76 p. ([Publication 118, 1964 revision]; Bureau of State Services (Community Health), Office of Grants Management.) \* Paper, 30c. ● Item 483-C FS 2.77: 964  
L.C. card Med 46-108
- 20747 Effect of evaporation and powdering processes on iodine-131 content of milk [with list of references; prepared by] Allan E. Raymond and George W. Williams. [1964.] [1]+70-72 p. 4° [Reprinted from Radiological health data, v. 5, no. 2, Feb. 1964.] † FS 2.90/a: Io 2/4
- 20748 Environmental radiation surveillance. [July 1964.] [2]+5 p. ([Publication 1224, Division of Radiological Health.]) † ● Item 485 FS 2.2: R 11/10  
L.C. card 64-62767

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- 20749 Guidelines for stroke rehabilitation program with model plan for community action [with list of selected reading references; prepared by Michael Canelis, Michael J. Oliva and Florence J. Ullman]. [Revised Sept. 1964.] [1964.] v+24 p. ([Publication 1166]; Division of Chronic Diseases, Heart Disease Control Program.) \* Paper, 15c.  
● Item 496-A  
L.C. card 64-61734 FS 2.6/2: St 8/964
- Health information series. ● Item 486 FS 2.50: (nos.)
- 20750 15. Menopause. [Revised 1964.] [1964.] [4] p. narrow 8° ([Publication 179.]) \* Paper, \$2.00 per 100; single copy, 5c.
- 20751 50. Varicose veins; [prepared by Heart Information Center, National Heart Institute]. [Revised 1964.] [1964.] 4 p. narrow 8° ([Publication 154.]) \* Paper, \$2.00 per 100; single copy, 5c.
- 20752 67. Rheumatic fever, and its prevention; [prepared by Heart Information Center, National Heart Institute, Bethesda, Md.]. [Revised 1964.] [1964.] 6 p. il. narrow 8° ([Publication 144.]) \* Paper, \$2.50 per 100; single copy, 5c.
- 20753 117. Inborn (congenital) heart defects; [prepared by Heart Information Center, National Heart Institute]. [1964.] [2]+8+[2] p. narrow 8° ([Publication 1204.]) \* Paper, \$5.00 per 100; single copy, 10c.
- 20754 Health manpower source book: 18. Manpower in 1960's; by Division of Public Health Methods in cooperation with Division of Dental Public Health and Resources and Division of Nursing. [1964.] [3]+67 p. il. 4° ([Publication 263, sec. 18.]) \* Paper, 40c. ● Item 485  
L.C. card 52-61801 FS 2.2: M 31/sec.18
- Health mobilization series. (Division of Health Mobilization.) ● Item 486-E FS 2.302: (letters-nos.)
- 20755 A-2. Community emergency health preparedness. 1964. iv+20 p. il. ([Publication 1071-A-2.]) \* Paper, 15c.
- 20756 F-5. Operation of generators in civil defense emergency hospital [with list of other publications on civil defense emergency hospital]. 1964. iv+68 p. il. ([Publication 1071-F-5.]) [Text on p. 3 of cover.] \* Paper, 30c.
- Hospital and medical facilities series (under Hill-Burton program): Category C. Organization and administration. (Division of Hospital and Medical Facilities.) ● Item 486-D
- 20757 C-7. Hospital profiles, decade of change 1953-62, non-Federal, short-term, general hospitals. [Mar. 1964.] vi+20 [1] p. il. 4° ([Publication 930-C-7.]) [Portions of this publication appeared in Feb. and Mar. 1964 issues of Modern hospital which also provided layout and art for this document.] \* Paper, 25c.  
L.C. card 64-62959 FS 2.74/3: C-7
- 20758 Identification and measurement of chlorinated hydrocarbon pesticides in surface waters [with list of references]; by A. W. Breidenbach [and others]. [1964.] x+[1]+108 p. il. 4° (Division of Water Supply and Pollution Control; [Publication 1241.]) † ● Item 496-A  
L.C. card 64-62937 FS 2.6/2: P 43
- 20759 Iodine-131 in post-mortem human thyroids [with list of references; by] Frances I. Visalli and Abraham S. Goldin. [1964.] p. 145-148, 4° [Reprinted from Radiological health data, v. 5, no. 3, Mar. 1964.] †  
FS 2.90/a: Io 2/2
- 20760 Kentucky program on medical aspects of driver limitation, editorials. [1964.] 1 p. 4° [Reprinted with permission from Journal of Kentucky State Medical Association, May 1964.] † FS 2.2: K 41
- 20761 List of health information leaflets and pamphlets of Public Health Service. Revised Sept. 1964. [1964.] [1]+6 p. 4° ([Publication 323.]) †  
● Item 481-A FS 2.24: In 3/964-2
- 20762 Long term care. [1964.] [6] p. narrow 12° ([Division of Chronic Diseases, Care Services.]) † ● Item 485 FS 2.2: C 18/4
- 20763 Medical practice on Navajo Reservation; [by] Jean L. Van Duzen. [1964.] [4] p. 4° [Reprinted with permission from Journal of American Medical Women's Association, v. 19, no. 7, July 1964.] † FS 2.2: M 46/14

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- 20764 Milk and milk products equipment, guide for evaluating sanitary construction. 1964. v+22 p. il. ([Publication 1216]; Division of Environmental Engineering and Food Protection, Milk and Food Branch.) \* Paper, 15c. ● Item 496-A  
L.C. card 64-62896 FS 2.6/2: M 59/2
- 20765 Modern sewage treatment plants, how much do they cost? practical guide to estimating municipal sewage treatment plant construction costs [with list of references; prepared by Donald R. Kaiser]. [1964.] vii+37 p. il. 4° ([Publication 1229]; Division of Water Supply and Pollution Control.) † ● Item 496-A  
L.C. card 64-62762 FS 2.6/2: Se 8
- 20766 Oral cancer and occupational health [with list of references; by] Richard L. Hayes. [1964.] [1]+342-347 p. il. 4° [Reprinted with permission from Journal of occupational medicine, v. 5, no. 7, July 1963.] †  
FS 2.2: C 16/8
- 20767 Physical survey manual, dental X-ray. July 1964. iii+129 p. il. 4° (Division of Radiological Health.) [Issued with marginal index tabs on cardboard showing chapter titles in appendix.] † ● Item 496-A  
L.C. card 64-62916 FS 2.6/2: D 43/3
- 20768 Proceedings of National Conference on Institutionally Acquired Infections, Minneapolis, Minn., Sept. 4-6, 1963, conducted by School of Public Health, University of Minnesota, with cooperation of Mayo Foundation [papers, with bibliographies]. [1964.] v+203 p. il. 4° ([Publication 1188]; Communicable Disease Center and Division of Hospital and Medical Facilities.) \* Paper, \$1.50. ● Item 504  
L.C. card 64-62764 FS 2.60/2: In 3
- 20769 Role of Department of Health, Education, and Welfare to NAAAP membership [paper by] Edward S. Sands, Executive Secretary, Secretary's Committee on Alcoholism, Division of Community Health Services. [1964.] 8 leaves, 4° [Presented at 15th annual meeting of North American Association of Alcoholism Programs, Portland, Oreg., Oct. 1, 1964.] †  
FS 2.30: Sa 5
- 20770 Strontium-90 in foods at intermediate stages of preparation for canning and freezing [with list of references]. [1964.] [1]+222-226 p. 4° (Division of Pharmacology, Food and Drug Administration.) [Reprinted from Radiological health data, v. 5, no. 5, May 1964.] †  
FS 2.90/a: St 89
- Vital and health statistics: Series 21, Data from National Vital Statistics System. (National Center for Health Statistics.) ● Item 500-E
- 20771 1. Natality statistics analysis, United States, 1962, analytical study of fertility trends in terms of period and cohort measures, also, discussion of characteristic of live birth including plurality, seasonal variation, period of gestation, weight at birth, sex ratio, attendant at birth, and legitimacy; [by Anders S. Lunde, Louise M. Okada, and Harry M. Rosenberg]. Oct. 1964. viii+67 p. il. 4° ([Publication 1000, series 21, no. 1; Division of Vital Statistics.) \* Paper, 45c.  
L.C. card 64-62976 FS 2.85/2: 21/no.1
- 20772 Where to write for birth and death records, United States and outlying areas. [Revised Aug. 1, 1964.] [1964.] cover title, 9 p. 4° ([National Center for Health Statistics; Publication 630A-1.]) [Text on p. 2 of cover.] \* Paper, 15c. ● Item 508  
L.C. card 59-60613 FS 2.102: B 53/3/964-2
- 20773 Where to write for marriage records. [Revised Aug. 1964.] [1964.] cover title, 5 p. 4° ([Publication 630B.]) [Text on p. 2 of cover.] \* Paper, 10c. ● Item 508  
L.C. card 59-60612 FS 2.102: M 34/964-2

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**PUBLIC ROADS BUREAU, Commerce Dept.  
Washington, D.C. 20235**

- 20774 Accidents on main rural highways, related to speed, driver, and vehicle; reported by David Solomon. July 1964. vi+44 p. il. 4° \* Paper, 35c.  
● Item 265 C 37.2: Ac 2  
L.C. card 64-62932
- 20775 Opportunities for young engineers in Bureau of Public Roads. Sept. 1964. cover title, ii+14 p. il. 4° [Text on p. 2 of cover. Notice of change, 1 p., oblong 24°, issued also.] \* Paper, 15c. ● Item 265 C 37.2: En 3/964
- 20776 Population forecasting methods, report on forecasting and estimating methods [with list of additional readings]; prepared by Frank V. Hermann. Revision June 1964. [1964.] 64 p. il. 4° (Urban Planning Division.) [Condensed version with modifications of booklet prepared in 1952 by Van Beuren Stanbery, Better population forecasting for areas and communities.] †  
L.C. card 64-62982 C 37.6/2: P 81

**RURAL ELECTRIFICATION ADMINISTRATION, Agriculture Dept.  
Washington, D.C. 20250**

- 20777 Number and percentage of farms electrified with central station service by States 1935, 1940, 1950, and 1964. Oct. 1964. 1 p. oblong 8° (Statistical Services Section, Administrative and Loan Accounting Branch, Controller's Division.) † A 68.20: 964

**SAVINGS BONDS DIVISION, Treasury Dept.  
Washington, D.C. 20220**

- 20778 Do-it-yourself plan that really works, now build your own retirement program with U.S. savings bonds. [Revised 1964.] [1964.] [6] p. narrow 12° ([SBD-599]). † ● Item 971 T 66.2: R 31/5

**SHIPS BUREAU (Navy), Defense Dept.  
Washington, D.C. 20350**

- 20779 Bureau of Ships Technical Library thesaurus of descriptive terms and code book; compiled by Ruth D. Camp. 1st edition, Dec. 2, 1963. [1963.] [907] p. 4° (NAVSHIPS 250-210-1.) [Issued with perforations.] ‡  
L.C. card 64-62155 D 211.2: T 27
- 20780 Inspection manual for fibrous glass reinforced plastic laminates, May 1964, errata. [1964.] [1]+61-63, p. 4° (NAVSHIPS 250-346-2.) [Issued in loose-leaf form.] † ● Item 412-B D 211.6/2: P 69/3/errata
- 20781 Maintainability design criteria handbook [for designers of shipboard electronic equipment], Change 1. Apr. 6, 1964. [339] p. il. 4° (NAVSHIPS 94324, Change 1.) [Issued in loose-leaf form.] \* Paper, \$1.75.  
● Item 412-B D 211.6/2: El 2/6/ch. 1

**SMALL BUSINESS ADMINISTRATION  
Washington, D.C. 20416**

- Administrative management course program, topic. ● Item 901-S
- 20782 2. Records and credit in profitable management [with bibliography; edited and prepared by George C. Willman, jr. and others]. 1964. viii+66 p.+[6] leaves, il. 4° ([Office of Management Development, Courses and Conference Division.]) [Artwork and visuals prepared by Michael J. Fontana and Milton H. Weber. Edge index on back cover.] \* Paper, \$1.25. SBA 1.24: 2  
L.C. card 64-65475
- 20783 Federal income tax reductions and small business; [prepared by Glenn D. Morrow]. [Sept. 1964.] iii+31 p. † ● Item 901-B SBA 1.2: In 2  
L.C. card 64-62925

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- 20784 SBA business loans, who can borrow, how to apply, credit requirements, loan policies; [issued by Office of Public Information]. [1964.] cover title, ii+12 p. narrow 8° † ● Item 901-B SBA 1.2: L 78/3/964
- 20785 SBA disaster loans to restore or replace businesses, homes; [prepared by Office of Public Information]. [1964.] iv+10 p. il. narrow 8° ([OPI-9.]) † ● Item 901-B SBA 1.2: L 78/4/964
- Small business bibliographies. † ● Item 901-K SBA 1.3:(nos.)
- 20786 31. Retail credit and collections; by Fred W. Kniffin. Aug. 1964 revision. [1964.] 12 p. 4° L.C. card 64-62981
- 20787 64. Photographic dealers and studies; revised by Ruth E. Valentine. Aug. 1964 revision. [1964.] 8 p. 4° [Originally issued as Small business bulletin 64.] L.C. card 64-62766
- 20788 65. Real estate and insurance; by Bob A. Hedges [and others]; revised by Ruth E. Valentine. Aug. 1964 revision. [1964.] 16 p. 4° L.C. card 64-62919
- 20789 67. Manufacturers' agent; by Myron Bill Neace, revised by Ruth E. Valentine. July 1964 revision. [1964.] 12 p. 4° [Originally issued as Small business bulletin 67.] L.C. card 64-62765
- Small business management series. ● Item 901-C SBA 1.12:(nos.)
- 20790 21. Profitable small plant layout [with sources of information]; by John R. Immer. 2d edition. 1964. vii+48 p. il. ([Office of Management Development, Publications Division.]) \* Paper, 25c. L.C. card 64-62961
- 20791 31. Management audit for small retailers [with list of publications for further information]; by John W. Wingate. 1964. v+51 p. ([Office of Management Development, Publications Division.]) \* Paper, 25c. L.C. card 64-62960
- 20792 Small marketers aids, annual no. 6; edited by Jean B. MacArthur. 1964. v+91 p. ([Office of Management Development, Publications Division.]) [Compilation of 11 Aids published during year ending June 30, 1961.] \* Paper, 35c. ● Item 901-J SBA 1.14/2: 6

# SMITHSONIAN INSTITUTION

Washington, D.C. 20560

## Smithsonian miscellaneous collections.

SI 1.7: (nos.)

- 20793 v. 147, no. 1. Architecture of Pueblo Bonito [with bibliography]; by Neil M. Judd. June 30, 1964 [Port City Press, Inc., Baltimore, Md.] vii+349 p. il. 95 pl. (Publication 4524.) [Published under grant from National Geographic Society.] † Paper, \$6.00. L.C. card 64-62271
- 20794 v. 148, no. 1. New theory identifying locale of Columbus's light, landfall, and landing [with list of literature cited]; by Ruth G. Durlacher Wolper. Sept. 11, 1964. [Port City Press, Inc., Baltimore, Md.] vii+41 p. il. map. (Publication 4534.) † Paper, 75c. L.C. card 64-62620

## SOCIAL SECURITY ADMINISTRATION, Health, Education, and Welfare Dept., Washington, D.C. 20201

- 20795 Equal employment policies [with suggested bibliography]. July 1964. cover title, [1]+45 p. il. 4° \* Paper, 30c. ● Item 516-C FS 3.6/3: Em 7/2
- 20796 Fringe benefits. July 1964. cover title, 32 p. il. 4° \* Paper, 30c. ● Item 516-C FS 3.6/3: B 43
- OASI (series). ● Item 518-A FS 3.35: (nos.)
- 20797 25g. Social security information for crew leaders and farmers. [July 1964.] [8] p. oblong 48° ([Internal Revenue Service, IRS publication 365.]) † L.C. card HEW 61-50
- 20798 858. Right to question decision made on your claim. Sept. 1964. [6] p. narrow 12° †

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Research and statistics note 1964 (series). (Division of Research and Statistics.) † FS 3.28&2: 964/(nos.)

- 20799 10. Automobile ownership by aged persons in United States, 1962; prepared by David Platky. Sept. 18, 1964. [5] p. 4°
- 20800 11. Coverage of full-time State and local government employees by group life insurance and health or hospital insurance, Oct. 1962; prepared by Alfred M. Skolnik and Julius W. Hobson. Sept. 25, 1964. 2+ [2] p. 4°
- 20801 Social welfare in United States, [by] Arthur J. Altmeyer. [1964.] cover title, 14 p. 2 tab. 4° [Reproduced for 15th General Assembly of International Social Security Association by U.S. Department of Health, Education, and Welfare, Social Security Administration.] † FS 3.2: W 45/3

SOIL CONSERVATION SERVICE, Agriculture Dept.

Washington, D.C. 20250

- 20802 Fall water supply summary for Nevada [as of Oct. 1, 1964]; report prepared by Manes Barton and Roy E. Malsor, jr. Oct. 8, 1964. [1]+5 leaves, il. 4° [Prepared in cooperation with Nevada Department of Conservation and Natural Resources, Division of Water Resources. Text on p. 3 of cover.] † A 57.46/14: 964

Soil survey series 1957. ● Item 102 (Rev. 1957) A 57.38: 957/(nos.)

- 20803 18. Tillamook area, Oreg. [with list of literature cited; by Clyde C. Bowlsby and Richard C. Swanson]. Aug. 1964. cover title, 1+75 p. il. 44 p. of pl. and maps, 4° [Prepared in cooperation with Oregon Agricultural Experiment Station. Text on p. 2 of cover. One map is colored.] \* Paper, \$2.50. L.C. card Agr 64-457
- 20804 19. Washington County, Nebr. [with list of literature cited; by Ross D. Greenawalt and William E. McKinzie]. Sept. 1964. cover title, 1+79 p. il. 32 p. and maps, 4° [Prepared in Cooperation with University of Nebraska, Conservation and Survey Division. Text on p. 2 of cover. One map is colored.] \* Paper, \$2.00. L.C. card Agr 64-458

Soil survey series 1959. ● Item 102 (Rev. 1957)

- 20805 35. Logan County, Kans. [with list of literature cited; by Elbert L. Bell and others]. July 1964. cover title, 1+78 p. il. 65 p. of pl. and maps, 4° [Prepared in cooperation with Kansas Agricultural Experiment Station. Text on p. 2 of cover. One map is colored.] \* Paper, \$3.50. L.C. card Agr 64-449 A 57.38: 959/35

Soil survey series, 1961. ● Item 102 (Rev. 1957) A 57.38: 961/(nos.)

- 20806 5. Williamson County, Tenn. [with list of literature cited; by J. C. True and others]. Aug. 1964. cover title, [1]+147 p. il. 82 p. of pl. and maps, 4° [Prepared in cooperation with Tennessee Agricultural Experiment Station. Text on p. 2 of cover. One map is colored.] \* Paper, \$4.50. L.C. card Agr 64-450
- 20807 6. Aroostook County, Maine, southern part [with bibliography; by John R. Arno]. Aug. 1964. cover title, [1]+62 p. il. 128 p. of pl. and maps, 4° [Prepared in cooperation with University of Maine Agricultural Experiment Station. Text on p. 2 of cover. One map is colored.] \* Paper, \$5.75. L.C. card Agr 64-444
- 20808 7. Ellis County, Tex. [with list of literature cited; by Charles A. Brooks and others]. Aug. 1964. cover title, 1+76 p. il. 62 p. of pl. and maps, 4° [Prepared in cooperation with Texas Agricultural Experiment Station. Text on p. 2 of cover. One map is colored.] \* Paper, \$3.50. L.C. card Agr 64-445
- 20809 8. Fulton County, Ky. [with list of literature cited; by John H. Newton and Raymond P. Sims]. Aug. 1964. cover title, 1+72 p. il. 40 p. of pl. and maps, 4° [Prepared in cooperation with Kentucky Agricultural Experiment Station. Text on p. 2 of cover. One map is colored.] \* Paper, \$2.25. L.C. card Agr 64-461

SOUTHEASTERN POWER ADMINISTRATION, Interior Dept.

Elberton, Ga. 30635

NOTE.—The Southeastern Power Administration was created by the Secretary of the Interior in 1950 to carry out functions assigned to the Secretary by the Flood control act of 1944 (58 Stat. 890), which pertain to the transmission and disposition of surplus electric power and energy generated at reservoir projects which are or may be under the control of the Army Department in West Virginia, Virginia, North Carolina, South Carolina, Georgia, Florida, Alabama, Mississippi, Tennessee, and Kentucky.

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# GOVERNMENT PUBLICATIONS

- 20810 Annual report, f.y. 1964. Southeastern Power Administration, Elberton, Ga. [1964.] cover title, 30 leaves, oblong 8° †  
L.C. card 62-64524 I 65.1: 964

## STATE DEPARTMENT Washington, D.C. 20520

### Department and foreign service series.

- 20811 127. You and your passport, application requirements, vaccinations, care of your passport, visas, getting along abroad. [Revised edition.] [Aug. 1964.] [10] p. narrow 12° ([Publication 7728]; Passport Office.) \* Paper, \$5.00 per 100; single copy, 10c. ● Item 863  
L.C. card SD 57-1

### External research studies in progress, ER (series). S 1.101: (nos.)

- 20812 1.22. USSR and Eastern Europe, list of current social science research by private scholars and academic centers. 1964. cover title, [5]+55 p. 4° ([Bureau of Intelligence and Research], External Research Staff.) † (Available to libraries, scholars, and universities only.)  
L.C. card 53-61425
- 20813 2.22. Asia, list of current social science research by private scholars and academic centers. 1964. cover title, [6]+83 p. 4° ([Bureau of Intelligence and Research], External Research Staff.) † (Available to libraries, scholars, and universities only.)  
L.C. card 64-62944
- 20814 3.22. Western Europe, Great Britain and Canada, list of current social science research by private scholars and academic centers. 1964. cover title, [6]+71 p. 4° ([Bureau of Intelligence and Research], External Research Staff.) † (Available to libraries, scholars, and universities only.)  
L.C. card 53-61426
- 20815 4.22. Middle East, list of current social science research by private scholars and academic centers. 1964. cover title, [5]+19 p. 4° ([Bureau of Intelligence and Research], External Research Staff.) † (Available to libraries, scholars, and universities only.)  
L.C. card 53-60845
- 20816 5.22. Africa, list of current social science research by private scholars and academic centers. 1964. cover title, [5]+33 p. 4° ([Bureau of Intelligence and Research], External Research Staff.) † (Available to libraries, scholars, and universities only.)  
L.C. card 53-61430
- 20817 6.22. American republics, list of current social science research by private scholars and academic centers. 1964. cover title, [6]+48 p. 4° ([Bureau of Intelligence and Research], External Research Staff.) † (Available to libraries, scholars, and universities only.)  
L.C. card 53-61429
- 20818 7.22. International affairs, list of current social science research by private scholars and academic centers. 1964. cover title, [5]+60 p. 4° ([Bureau of Intelligence and Research], External Research Staff.) † (Available to libraries, scholars, and universities only.)  
L.C. card 54-61701

### General foreign policy series.

- 20819 194. U.S. balance of payments, questions and answers. [Revised Aug. 1964.] [1964.] cover title, 24 p. il. 12° ([Publication 7702; Office of Media Services, Bureau of Public Affairs.]) \* Paper, 15c. ● Item 875  
L.C. card SD 64-5 S 1.71: 194

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A 92.11/8: 962-64
- 20847 Meat meal and tankage production, semi-annual report. Jan. 30, 1964. 1 p. 4° (MTAn 3 (1-64); Crop Reporting Board.) † A 92.17/2: 964

## TARIFF COMMISSION Washington, D.C. 20436

- 20848 Cotton typewriter-ribbon cloth, report to the President (no. TEA-IR-6-64), under sec. 351(d) (1) of Trade expansion act of 1962. Sept. 1964. cover title, [1]+17 leaves, 4° (TC publication 139; [TC 29374].) †  
L.C. card 62-64543 TC 1.2: C 82/12/964
- 20849 Determination of no injury or likelihood thereof: Plastic baby carriers from Japan. Oct. 6, 1964. 5 p. 4° (TC publication 141; AA1921-41.) †  
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- 20850 — Plastic sheet from United Kingdom. Sept. 22, 1964. 3 p. 4° (TC publication 138; AA1921-42.) †  
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- 20851 — Window glass from U.S.S.R. Sept. 29, 1964. 4 p. 4° (TC publication 140; AA1921-40.) †  
TC 1.31: G 64/2

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- 20852 Technical information center for science and industry. [1963.] [6] p. il.  
narrow 8° † C 41.22: T 22/3
- 20853 Technical literature searching service [serving science and industry, Office  
of Technical Services-Library of Congress]. [1964.] [6] p. narrow  
8° † C 41.22: T 22/2/964

TRANSPORTATION CORPS (Army), Defense Dept.  
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TRECOM technical reports. (Army Transportation Research Command,  
Fort Eustis, Va.) D 117.8/2: (nos.)

- 20854 64-3. Personnel restraint system study, CV-2 DeHavilland Caribou, crash injury  
evaluation [with list of references]; prepared by [Joseph L. Haley, jr.,  
James P. Avery], Aviation Safety Engineering and Research, 2871 Sky  
Harbor Blvd., Phoenix, Ariz., Flight Safety Foundation, Inc. Apr.  
1964. [1]+iv+56+[4] p. il. 4° (Task 1A924701A2101, contract  
DA 44-177-AMC-888(T); AvCir 62-16.) [Supplement, iii p. 20 pl. 4°  
was issued also.] Φ (Price upon application).
- 20855 64-14. Measurement program to determine static electricity charging currents  
in helicopter main rotor blades [with bibliography]; prepared by  
Sikorsky Aircraft, Division of United Aircraft, Stratford, Conn. June  
1964. cover title, [1]+viii+37+[4] p. il. 4° (Task 1D121401A14130  
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- 20856 64-28. Investigation of conformal gear for helicopter power transmission [with  
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Pa. June 1964. [1]+vi+128+[4] p. il. 4° (Task 1D121401A14414,  
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- 20857 64-37. Research in field of fiberglass-reinforced sandwich structure for airframe  
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homa Research Institute, Norman, Okla. July 1964. [1]+xi+96+  
[4] p. il. 4° (Task 1D121401A14203, contract DA 44-177-AMC-98(T).)  
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- 20858 64-39. Flow-visualization techniques used in full-scale flight tests, aerophysics  
research report 49; prepared by Sean C. Roberts and Michael R. Smith.  
July 1964. [1]+vi+26+[4] p. il. 4° (Task 1D21401A14203 (for-  
merly task 9R38-11-009-03), contract DA 44-177-AMC-892(T).)  
Φ (Price upon application).
- 20859 64-61. High-performance helicopter program, summary report, phase 2 [with  
list of references]; prepared by Bell Helicopter Company, Fort Worth,  
Tex. Oct. 1964. [1]+viii+93+[4] p. il. 4° (Task 1D121401A14301,  
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Pa., Sept. 28, 1964. [1964.] 12 p. 4° (D-1353.) † T 1.31: R 67/10
- 20861 Money flows and balance of payments adjustment, remarks by Robert V.  
Roosa, Under Secretary of Treasury for Monetary Affairs, to New York  
Chamber of Commerce, New York, N.Y., Oct. 8, 1964. [1964.] 12 p. 4°  
(D-1363.) † T 1.31: R 67/11
- 20862 Remarks by Douglas Dillon, Secretary of Treasury, at Founder's Day cere-  
monies, Bradley University, Peoria, Ill., Oct. 9, 1964. [1964.] 6 p. 4°  
(D-1362.) † T 1.31: D 58/66
- 20863 United States tax system and international tax relationships, perspective  
in 1964, remarks by Stanley S. Surrey, Assistant Secretary of Treas-  
ury, before Tax Executives Institute, Montreal, Quebec, Canada, Sept. 21,  
1964. [1964.] 42 p. 4° (D-1348.) † T 1.31: Su 7/9

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- 20865 English teaching forum, v. 2, no. 3. [1964.] cover title, 28 p. il. 4° ([Information Center Service.]) [Text on p. 2 of cover.] \* Paper, 25c. ● Item 672-D IA 1.17: 2/3
- 20866 Facts about USIA. [1964.] 12 p. il. † ● Item 672-B IA 1.2: In 3/2/964-2

## UNITED STATES TRAVEL SERVICE, Commerce Dept.

Washington, D.C. 20230

- 20867 Travel new world of great outdoors, see the U.S.A. [1964.] [2] p. il. oblong f°, folded into narrow 8° size. ([U.S.T.S.-104-E.]) [Illustrations are colored.] † ● Item 271-A-1 C 47.2: Ou 8

## URBAN RENEWAL ADMINISTRATION, Housing and Home

Finance Agency, Washington, D.C. 20410

- 20868 Open-space land program guide, policies and requirements for Federal assistance under title 7 of Housing act of 1961. [1964.] cover title, iv+[41] p. 4° [Issued in loose-leaf form.] † ● Item 584-E HH 7.6/3: L 22/964

## VETERANS' ADMINISTRATION

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Information bulletin IB (series). †

- 20869 08F-26. Safety and fire protection bulletin, Sept. 1964, v. 7, issue 3. [1964.] ii + 6 p. il. 4° (Safety and Fire Protection Division, Office of Assistant Administrator for Construction.) ● Item 986-A VA 1.22: 08F-26
- VA pamphlets. † ● Item 988 VA 1.19: (nos.)
- 20870 5-15. Engineers, civil, electrical, mechanical [mechanical], & architects in Veterans Administration, planning & design, construction supervision, hospital engineering. Revised [edition]. [Oct. 1964.] 22 + [2] p. il. 4° [Recission VA pamphlet 5-15, Sept. 1958.]
- 20871 29 13. National service life insurance premium rates for total disability income provision providing disability protection to age 65 (TDIP 65) for participating (V) and non-participating (RS & W) policies; effective Jan. 1, 1965. Oct. 1964. [1] + 20 p.

## VOCATIONAL REHABILITATION ADMINISTRATION, Health,

Education, and Welfare Dept., Washington, D.C. 20201

- 20872 Regulations governing programs administered by Vocational Rehabilitation Administration, pursuant to Vocational rehabilitation act (29 U.S.C., chap. 4), Randolph-Sheppard vending stand act (20 U.S.C., chap. 6A), Administrative procedure act (5 U.S.C., chap. 19). [Feb. 1964, reprinted with changes]. Aug. 1964. [2] + 30 p. [Includes on p. 30 amendments to sec. 401.74, 401.75, 401.83, and 401.89 concerning copyright policy for research and training grants.] † ● Item 530 L.C. card 64-62980 FS 13.206: V 85/964-2
- 20873 Rehabilitation a decade hence: [by] Mary E. Switzer. [1964.] [4] p. 4° [Reprinted from Rehabilitation record, July-Aug. 1964.] † FS 13.216/a: R 266/2
- Rehabilitation service series. †
- 20874 65-12. Case recording in rehabilitation, report of Committee on Case Recording, 1st Annual Institute on Rehabilitation Services, May 20-25, 1963 [with annotated bibliography on case recording]; Robert W. MacDonald, editor. [1964.] vii + 99 p. 4° ● Item 531 FS 13.207: 65-12

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**WAGE AND HOUR AND PUBLIC CONTRACTS DIVISIONS,  
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- 20875 Highlights on computing overtime pay under Fair labor standards act, as amended, 1961. Sept. 1964. [1]+11 p. il. narrow 8° (WHPC publication 1100.) † ● Item 777 L 22.2: Ov 2/964
- 20876 How Fair labor standards act operates in our town. Sept. 1964. [20] p. il. narrow 8° (WHPC publication 1106.) [Includes list of publications available on request.] † ● Item 777 L 22.2: W 12/10/964

**WEATHER BUREAU, Commerce Dept.  
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- Decennial census of United States climate: Climatic summary of United States, supplement for 1951-60, Climatology of United States no. 86- (series). ● Item 273-B C 30.71/9: (nos.)
- 20877 15. Maryland and Delaware, includes District of Columbia. 1964. 62 p. il. oblong 8° \* Paper, 35c.
- 20878 17. Minnesota. 1964. 69 p. il. oblong 8° \* Paper, 35c.
- National Severe Storms Project report. †
- 20879 21. On motion and predictability of convective systems as related to upper winds in case of small turning of wind with height [with list of references]; by James C. Fankhauser. Jan. 1964. [3]+36 p. il. 4° C 30.70/2: 21

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- 20880 Cooperative Research and Demonstration Grants Program; [by Lee G. Burchinal]. [1964.] [1]+8-19 p. 4° [Reprinted from Welfare in review, Aug. 1964.] † FS 14.10/a: C 78/2
- 20881 Foster homes for older people help solve growing problem. [1964.] 4 p. il. 4° (OA 141; Office of Aging.) [Reprinted from Aging, no. 118, Aug. 1964.] † FS 14.9/a: F 811
- 20882 Public welfare research and statistics; [by Genevieve W. Carter]. [1964.] [1]+7 p. 4° [Reprinted from Welfare in review, Aug. 1964.] † FS 14.10/a: W 457

**WOMEN'S BUREAU, Labor Dept.  
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- 20883 157-26 (rev.). Legal status of women in United States: Report for Nebraska as of May 1, 1964; [prepared by Josephine M. Urand and reviewed by Laura Lee Spencer]. [1964.] iii+24 p. \* Paper, 15c. L.C. card L 63-62
- 20884 289. Clerical occupations for women, today and tomorrow [with list of references; by Janice N. Hedges]. 1964. vii+69 p. il. \* Paper, 35c. L.C. card L 64-115
- 20885 Inventory of State equal pay legislation. Sept. 1, 1964. 4 p. 4° ([WB 65-58.] † L 13.2: Eq 2/18
- 20886 Labor laws affecting women, capsule summary: Alaska, July 1, 1964. [1964.] 5 p. 4° † L 13.14: Al 1s/964
- Leaflet.
- 20887 10. Publications of Women's Bureau currently available. Revised Sept. 1964. [1964.] 8 p. narrow 8° † ● Item 783 L 13.11: 10/15
- 20888 What you want in State equal pay bill. Sept. 1964. 4 leaves, 4° ([WB 65-73.] † L 13.2: Eq 2/19

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| 20892 | 22. | Liquid fuelling and dispensing facilities [with bibliography], Change 2; June 1964. [1964.] [39] p. 4° |
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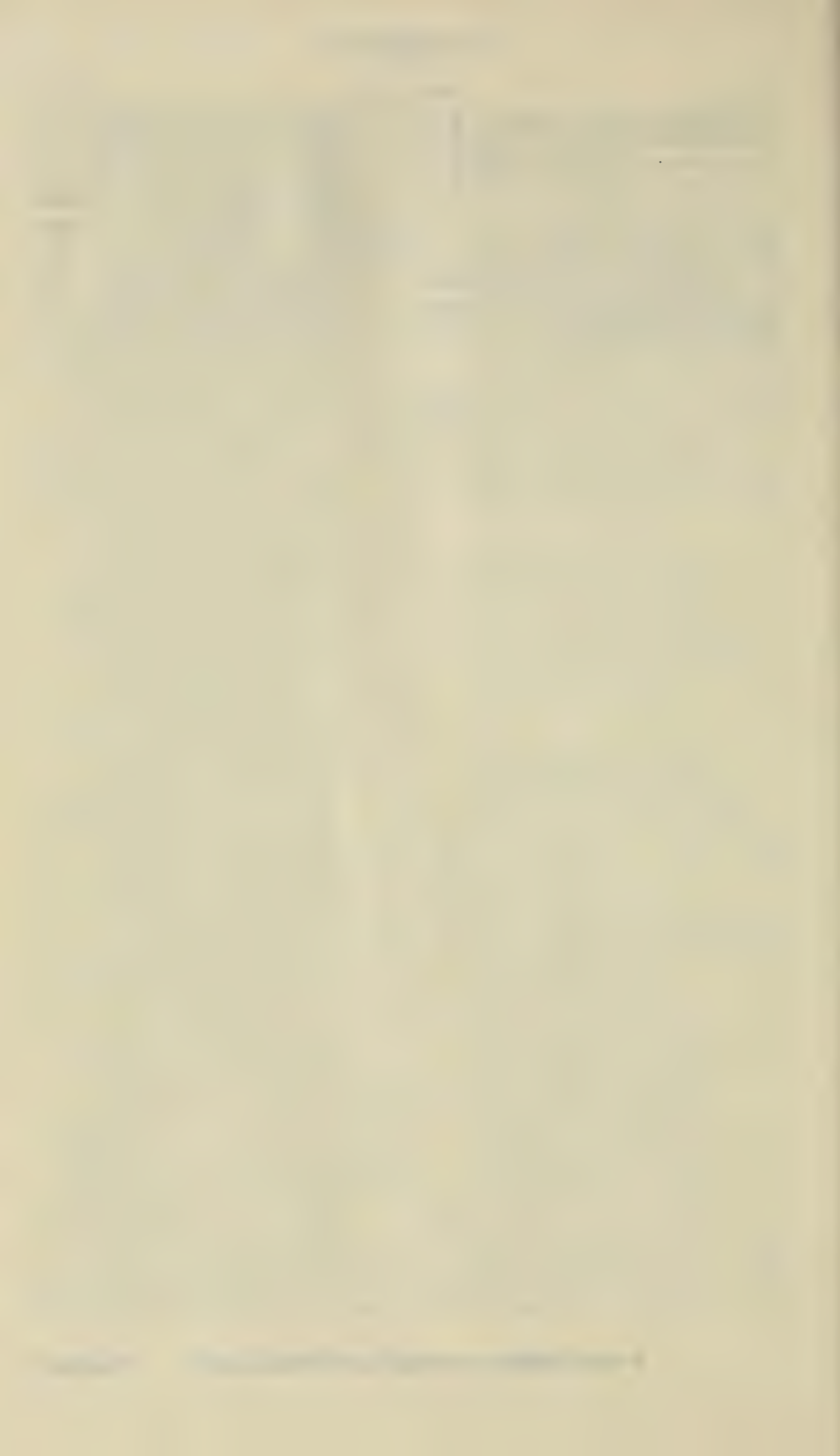
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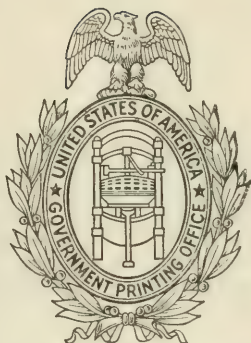
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- Superphosphate, its history, chemistry, and manufacture. (Agricultural Research Service.) \$3.25. ● A 77.2: Su 7
- Survey of State legislation relating to higher education, Jan. 1 to Dec. 31, 1963. (Education Office, OE-50008-63, Circular 748.) \$1.75. ● FS 5.250: 50008-63
- Synthetic organic chemicals, United States production and sales, 1963. (Tariff Commission, TC publication 143.) \$1.50. ● TC 1.33: 963
- Water resources of Delaware River Basin. (Geological Survey, Professional paper 381.) \$6.25. ● I 19.16: 381
- Water supplies of 100 largest cities in United States. (Geological Survey, Water-supply paper 1812.) \$2.00. ● I 19.13: 1812
- West Virginia, centennial of statehood, 1863-1963. (Library of Congress.) 60c. ● LC 1.2: W 52v



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## Abbreviations

|                   |                                       |                  |                               |
|-------------------|---------------------------------------|------------------|-------------------------------|
| add-----          | addition, addendum, addenda.          | n. d.-----       | no date.                      |
| amdt., amdts----- | amendment, amendments.                | n. p.-----       | no place.                     |
| app-----          | appendix, appendixes.                 | no., nos-----    | number, numbers.              |
| bk., bks-----     | book, books.                          | p-----           | page, pages.                  |
| chap-----         | chapter, chapters.                    | p. of pl-----    | pages of plates.              |
| Cong-----         | Congress.                             | par., pars-----  | paragraph, paragraphs.        |
| Dept-----         | Department.                           | pl-----          | plate, plates.                |
| doc-----          | document.                             | por-----         | portrait, portraits.          |
| facsim-----       | facsimile, facsimiles.                | pt., pts-----    | part, parts.                  |
| fy-----           | fiscal year.                          | rp-----          | report.                       |
| G.H.A-----        | Greenwich hour angle.                 | S-----           | Senate, Senate bill.          |
| H-----            | House.                                | S. Con. Res----- | Senate concurrent resolution. |
| H. Con. Res-----  | House concurrent resolution.          | S. doc-----      | Senate document.              |
| H. doc-----       | House document.                       | S. ex. doc-----  | Senate executive document.    |
| H. ex. doc-----   | House executive document.             | S. ex. rp-----   | Senate executive report.      |
| H. J. Res-----    | House joint resolution.               | S. J. Res-----   | Senate joint resolution.      |
| H. R-----         | House of Representatives, House bill. | S. Res-----      | Senate resolution.            |
| H. Res-----       | House resolution.                     | S. rp-----       | Senate report.                |
| H. rp-----        | House report.                         | sec-----         | section, sections.            |
| il-----           | illustration, illustrations.          | sess-----        | session, sessions.            |
| in-----           | inch, inches.                         | Stat. L-----     | Statutes at large.            |
| lat-----          | latitude.                             | supp-----        | supplement.                   |
| long-----         | longitude.                            | tab-----         | table, tables.                |
| m-----            | mile.                                 | Treas-----       | Treasury.                     |
|                   |                                       | v-----           | volume, volumes.              |
|                   |                                       | vs., v-----      | versus.                       |

Common abbreviations for the names of States, months, etc., are also used.

An explanation of the symbols used to designate sizes of publications is given on the inside of the front cover.

## Explanation

The individual issuing department, bureau, office, or agency is considered the publisher of Government publications.

Words and figures enclosed in brackets [ ] in titles are given for information, but do not appear on the title pages of the publications cataloged. Place and printer are not given for publications printed at the United States Government Printing Office, Washington, D.C., or at Government departmental and field printing plants. The dates given with Senate and House documents and reports are the dates on which they were ordered to be printed. Usually the printing promptly follows the ordering, but various causes sometimes make delays.

Under provisions of the Printing Act of January 12, 1895, all Government publications, except administrative and confidential (or restricted), are entered in the Monthly Catalog.

The L.C. card number appended to some of the entries is for those libraries ordering printed cards from the Library of Congress. The number at the extreme right of an entry indicates the classification of the publication in the Office of the Superintendent of Documents.

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More than 12,000 different bills are usually introduced during a Congress, and there are additional prints on many during the progress of the legislation. With the exception of a very few—such as revenue bills—the demand is an unknown quantity and on most of them we receive no orders, which makes it impossible to print a sales supply. It may be that a copy could be obtained from your Congressman.

A difficult problem is also presented in providing a supply of congressional documents, hearings, and reports because there are approximately 6,000 of this class of publications issued during a Congress and only a few of them are called for. We will attempt to print for sale a few of the more important ones, but if not priced the only possible source would be from your Congressman.



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### LIBRARY CLASSIFICATION IN DOCUMENTS OFFICE

The classification given at the right of entries for departmental publications is that used in the Library of the Division of Public Documents. It is also used as a catalog number for sales stock of this office. The shilling mark (/) separates what would ordinarily be superior or inferior numbers or letters, as it is not practicable to print these numbers or letters as superiors or inferiors in the Monthly Catalog.

# New Classification Numbers Assigned January-December 1964

NOTE.—New classes appearing for the first time in this issue of the Monthly Catalog are listed in bold face type.

- |                           |  |
|---------------------------|--|
| A 1.102: date_____        | Agriculture Department.<br>Orderly liquidation of stocks of agricultural commodities held by Commodity Credit Corporation and expansion of markets for surplus agricultural commodities, annual report by Secretary of Agriculture in response to sec. 201 (b), Public law 540, 84th Congress. |
| A 13.13/2: CT/date_____   | Forest Service.<br>[National forests, reports of activities during year.]  |
| A 13.36/3: nos_____       | Managing your woodland, how to do it guides.<br>NOTE.—Issued by Pacific Northwest Region, State and Private Forestry, Portland, Oregon.  |
| A 13.40/8-2: date_____    | Recent publications of Southern Forest Experiment Station (irregular).<br>NOTE.—Title varies. See, for earlier class, A 13.40/8: P 96.   |
| A 13.65/13: CT_____       | Intermountain Forest and Range Experiment Station: Addresses.  |
| A 13.66/13: date_____     | Pacific Northwest quarterly stumpage and log supply report.<br>NOTE.—U.S. Forest Service misc. publication.  |
| A 21.29: nos_____         | Information Office.<br>Service, USDA's report to consumers (monthly).  |
| A 43.36: nos_____         | Federal Extension Service.<br>Ideas, 4-H and youth development (series).   |
| A 57.1/2: date_____       | Soil Conservation Service.<br>Conservation highlights, digest of annual report of Soil Conservation Service.   |
| A 77.239/2: nos_____      | Agricultural Research Service.<br>Chemical evaluation and control fact sheet MID-CEC (series).<br>NOTE.—Issued by Meat Inspection Division.  |
| A 77.532:—533: Reserved   |  |
| A 77.534: nos_____        | CR (series).<br>NOTE.—Issued by Crops Research Division.   |
| A 88.5: CT_____           | Agricultural Marketing Service.<br>Laws.   |
| A 88.33/3: CT_____        | [Checklist of reports issued by Agricultural Marketing Service] supplements.<br>NOTE.—Formerly classified as supplements to individual numbers in A 88.33: class. Designated CL-(letters) supplement.  |
| A 94.11: v.nos.& nos_____ | Cooperative State Experiment Station Service.<br>Agricultural science review.  |
| AC 1.13: CT_____          | Arms Control and Disarmament Agency.<br>Bibliographies and lists of publications.  |
| AC 1.14: date_____        | Report on U.S. Government research and studies in field of arms control and disarmament matters.   |
| C 1.48: nos_____          | Commerce Department.<br>Staff reports.<br>NOTE.—Issued by Office of Assistant Secretary of Commerce for Science and Technology.  |

|                          |   |
|--------------------------|---|
| C 1.49: Reserved         |   |
| C 1.50: nos-----         | Overseas business reports OBR (series).<br>NOTE.—See, for earlier class, C 42.20: (nos.).<br>Census Bureau.   |
| C 3.62/4: nos-----       | United States maps, GE-50 (series).   |
| C 3.62/5: date-----      | Congressional district atlas.<br>NOTE.—See, for earlier class, C 3.62/2: C 76/2.<br>Area measurement reports, GE-20 (series).   |
| C 3.208/2: nos-----      | Area measurement reports, GE-20 (series).   |
| C 3.223/16: nos-----     | Evaluation and research reports ER (series).  |
| C 3.226/a: CT-----       | Business cycle developments (separates).  |
| C 3.231: nos-----        | Manufacturers' shipments, inventories, and<br>orders, series M3-1.<br>NOTE.—Formerly Industry survey.   |
| C 3.232-233: Reserved    |   |
| C 3.233/2: nos-----      | Census of transportation, advance and/or<br>preliminary reports.<br>Coast and Geodetic Survey.<br>Handbooks, manuals, guides.<br>National Bureau of Standards.                |
| C 4.12/4: CT-----        | Journal of research of National Bureau of<br>Standards, Sec. C, Engineering and instru-<br>mentation (separates).   |
| C 13.22/sec.Ca: CT-----  | Journal of research of National Bureau of<br>Standards, Sec. C, Engineering and instru-<br>mentation (separates).   |
| C 13.31/3: nos-----      | Central Radio Propagation Laboratory iono-<br>spheric predictions (monthly).<br>NOTE.—Continuation of Basic radio propagation<br>predictions, CRPL series D, C 13.31: (nos.). |
| C 13.36/5: nos-----      | NBS publications newsletter.  |
| C 13.47: date-----       | Resident research associateships, postdoctoral,<br>tenable at National Bureau of Standards<br>(annual).<br>NOTE.—See, for earlier class, C 13.2: R 31/3/<br>date.             |
|                          | Weather Bureau.   |
| C 30.59/45: v.nos-----   | Storage-gage precipitation data for Western<br>United States.   |
| C 30.70/2: nos-----      | National Severe Storms Project reports.   |
| C 30.71/8: nos-----      | Decennial census of United States climate, Cli-<br>matic Summary of United States, supplement<br>1951-60, Climatology of United States no.<br>86-(series).                    |
| C 30.78: CT-----         | Study kits.   |
| C 30.79: date-----       | Weather service for merchant shipping.  |
| C 30.80: nos-----        | National Meteorological Center technical memo-<br>randums.  |
| C 30.81: CT-----         | Addresses.  |
|                          | Civil Aeronautics Board.  |
| C 31.206/7: date-----    | Regulations of Civil Aeronautics Board.   |
| C 31.252/2: nos-----     | Bureau of Safety reports, BOSR (series).  |
|                          | Public Roads Bureau.  |
| C 37.27: nos-----        | Highway planning technical reports.   |
| C 37.28: CT-----         | Bibliographies and lists of publications.   |
| C 37.29: Reserved        |   |
| C 37.30: date-----       | Highway research and development studies.   |
|                          | Business and Defense Services Administration.   |
| C 41.90/4: CT-----       | BDSA industry growth studies.   |
|                          | International Commerce Bureau.  |
| C 42.8/3: date-----      | International commerce, quarterly index.  |
| C 42.22: nos-----        | Reports prepared by Foreign Service of United<br>States, listings.  |
|                          | Area Redevelopment Administration.  |
| C 46.9/2: nos.& nos----- | Redevelopment (monthly).<br>NOTE.—Replaces Area redevelopment bulletin,<br>C 46.9: (v.nos.& nos.).  |
| C 46.19/2: date-----     | Directory of approved projects (monthly).   |
| C 46.21: nos-----        | Monthly OEDP status report.   |
| C 46.22: CT-----         | ARA field reports.  |
| C 46.22/2: CT-----       | ARA staff studies.  |



- C 46.23 : date\_\_\_\_\_ Quarterly cumulative report of technical assistance.
- C 46.24 : CT\_\_\_\_\_ Economic redevelopment research.  
International Business Operations Bureau.
- C 48.9 : CT\_\_\_\_\_ Reports of United States trade and investment missions.  
Community Relations Service.
- C 50.1 : date\_\_\_\_\_ Annual report.
- C 50.2 : CT\_\_\_\_\_ General publications.
- C 50.3 : -8 : Reserved
- C 50.9 : CT\_\_\_\_\_ Addresses.  
Federal Communications Commission.
- CC 1.7/4 : CT\_\_\_\_\_ Handbooks, manuals, guides.  
Civil Service Commission.
- CS 1.65/2 : date\_\_\_\_\_ Directory of ADP training services and sources of information.  
NOTE.—Continuation of the service inaugurated in 1960 by the Bureau of the Budget with its publication of directory of orientation and training courses in automatic data processing.
- Defense Department.
- D 1.13/3 : nos\_\_\_\_\_ Defense procurement circulars.
- D 1.32/2 : v.nos.& nos\_\_\_\_\_ Bulletin of the U.S. Antarctic Projects Officer (monthly).
- D 1.38/2 : date\_\_\_\_\_ Cost reduction report (irregular).
- D 7.6/9 : nos\_\_\_\_\_ HQM (series).
- D 7.6/10 : nos\_\_\_\_\_ DSA-DLSC handbooks.  
NOTE.—Issued by Defense Supply Agency, Defense Logistics Services Center, Battle Creek, Mich.
- Civil Defense Office.
- D 13.10 : \_\_\_\_\_ Leaflet L (series).  
NOTE.—See, for earlier class, PrEx 4.13 : (nos.).
- D 13.16 : date\_\_\_\_\_ Western Training Center, catalogs and schedules of courses.
- Army Department.
- D 101.52/5 : date\_\_\_\_\_ Research in progress, U.S. Army Research Office (Durham) (annual).
- D 101.63 : date\_\_\_\_\_ Management improvement program, Plowback, improvements reported (semiannual).
- D 101.64 : Reserved
- D 101.65 : nos\_\_\_\_\_ AMC historical studies.
- Engineers Corps (Army).
- D 103.24/10 : CT\_\_\_\_\_ Waterways Experiment Station capabilities.
- D 103.40 : -41 : Reserved
- D 103.42 : nos\_\_\_\_\_ Coastal Engineering Research Center : Technical memoranda.  
—Miscellaneous papers.
- D 103.42/2 : nos\_\_\_\_\_ Pamphlet EP (series).
- D 103.43 : nos\_\_\_\_\_ Pamphlet EP (series).
- Army Medical Service.
- D 104.20 : Reserved
- D 104.21 : nos\_\_\_\_\_ Aeromedical Research Unit, Fort Rucker, Ala. : USAARU reports.
- Ordnance Corps (Army).
- D 105.12/5 : nos\_\_\_\_\_ Feltman Research Laboratories, Picatinny Arsenal, Dover, N.J. : Technical memorandums.
- D 105.22/2-2 : nos\_\_\_\_\_ Army Missile Command : Report RG-TR (series).
- D 105.26 : nos\_\_\_\_\_ Army Materials Research Agency : Technical report AMRA CR (series).
- Quartermaster General of Army.
- D 106.10/3 : nos\_\_\_\_\_ Quartermaster Food and Container Institute. Bibliographic series.
- Military History, Office of Chief of (Army).
- D 114.10/2 : date\_\_\_\_\_ Army historical program, fiscal year.
- Civil Defense Office (Army).
- D 119.1 : date\_\_\_\_\_ Annual report.

NOTE.—See, for earlier class, D 13.1 : (date).

|                                |   |
|--------------------------------|---|
| D 119.2: CT-----               | General publications.<br>NOTE.—See, for earlier class, D 13.2: (CT).  |
| D 119.3: -8: Reserved          |   |
| D 119.8/2: nos-----            | [Handbook] H (series).<br>NOTE.—See, for earlier class, D 13.8/3: (nos.).                                       |
| D 201.16: CT-----              | Navy Department.<br>Addresses.<br>Naval Oceanographic Office.   |
| D 203.23: Reserved             |   |
| D 203.24: nos-----             | National Oceanographic Data Center publications (numbered).   |
| D 203.24/2: nos-----           | National Oceanographic Data Center newsletter.  |
| D 203.24/3: CT-----            | National Oceanographic Data Center publications (unnumbered).   |
| D 203.24/4: date-----          | National Oceanographic Data Center announcements.<br>Naval Operations Bureau.                                   |
| D 207.12: Reserved             |   |
| D 207.13: date-----            | Shipbuilding and conversion program (annual).<br>NOTE.—See, for earlier class, D 207.2: Sh 6/2/ date.           |
| D 209.15: date-----            | Yards and Docks Bureau (Navy).<br>Index of Bureau of Yards and Docks publications.<br>Naval Research Office.    |
| D 210.8/3-2: nos-----          | ONR technical report RLT (series).<br>Naval Weapons Bureau.   |
| D 217.16/4-2: letters-nos----- | Technical manual, Navy Calibration program, measurement system operation procedure.<br>— Cross-check procedure. |
| D 217.16/8: nos-----           |   |
| D 217.24: Reserved             |   |
| D 217.25: date-----            | Telephone directory (quarterly).<br>Air Force Department.   |
| D 301.38/6: Reserved           |   |
| D 301.38/7: v.nos.&nos-----    | Instructors' journal (quarterly).<br>NOTE.—Issued by Air Training Command.                                      |
| D 301.45/33: Reserved          |   |
| D 301.45/33-2: nos-----        | Arnold Engineering Development Center: AEDC-TDR (series).   |
| D 301.45/34: Reserved          |   |
| D 301.45/34-2: nos-----        | Research and Technical Division: Technical documentary report RTD-TDR (series).                                 |
| D 301.45/35: -37: Reserved     |   |
| D 301.45/38: date-----         | Air Force Systems Command annual report.  |
| D 301.45/39: nos-----          | Environmental research papers.  |
| D 301.45/40: nos-----          | Physical sciences research papers.  |
| D 301.45/41: Reserved          |   |
| D 301.45/42: nos-----          | Special reports.<br>NOTE.—Issued by Air Force Cambridge Research Laboratories.                                  |
| D 301.45/43: nos-----          | Geophysics and space data bulletin.   |
| D 301.69/6: Reserved           |   |
| D 301.69/7: date-----          | List of OAR research efforts (quarterly).   |
| D 301.69/8: date-----          | OAR quarterly index of current research results.<br>NOTE.—See, for earlier issue, D 301.69/3: 64-5/ 964.        |
| D 301.70: Reserved             |   |
| D 301.71: nos-----             | Space Systems Division: Technical documentary report TDR (series).  |
| FAA 1.10/3: nos-----           | Federal Aviation Agency.<br>Bibliographic lists.  |
| FAA 3.11/3: date-----          | Air Traffic Service.<br>Enroute IFR peak day charts, fiscal year.   |

|                                |  |
|--------------------------------|--|
| FAA 7.10/2: nos-----           | Aviation Medical Service.<br>Civil Aeromedical Research Institute: Technical publications.   |
| FHL 1.26: date-----            | Federal Home Loan Bank Board.<br>Number of foreclosures [and Rates of foreclosure] by FSLIC insured savings and loan associations (quarterly).   |
| FP 1.28: date-----             | Federal Power Commission.<br>List of electric power suppliers with annual operating revenues of \$2,500,000 or more classified as public utilities under Federal power act.                              |
| FR 1.13/2: CT-----             | Federal Reserve System Board of Governors.<br>Laws.  |
| FR 1.36/7: date-----           | Consumer credit at consumer finance companies (monthly).<br>NOTE.—Designated G.22.   |
| FR1.46/3: date-----            | U.S. Government security yields and prices (yields in per cent per annum) (monthly).<br>NOTE.—Designated G.14.   |
| FR 1.49: Reserved              |  |
| FR 1.50: date-----             | Official opening and closing hours of Board of Governors and Federal reserve banks and branches; also holidays, during month.<br>NOTE.—Designated K.8.   |
| FS 1.23: date-----             | Health, Education, and Welfare Department.<br>Mental retardation, fiscal year program of Department of Health, Education, and Welfare.<br>NOTE.—See, for earlier class, FS 1.2:M 52/3.                   |
| FS 1.24: nos-----              | Educational Television Facilities Program: Program bulletins.  |
| FS 1.24/2: nos-----            | Public notices.  |
| FS 2.2/a: CT-----              | Public Health Service.<br>General publications (separates).  |
| FS 2.22/13-3: date-----        | National Institutes of Health.<br>Periodicals currently received in NIH library (annual).  |
| FS 2.22/30-2: v.nos.& nos----- | Cancer chemotherapy abstracts.   |
| FS 2.22/37-2: date-----        | Statistical report, annual tabulations of Model Reporting Area for Blindness Statistics.   |
| FS 2.22/38-3: date-----        | Outpatient psychiatric clinics, community service activities.  |
| FS 2.22/38-4: date-----        | Directory of outpatient psychiatric clinics, psychiatric day-night services, and other mental health resources in United States and territories.<br>NOTE.—See, for earlier class, FS 2.22: P 95/5/ date. |
| FS 2.22/42: date-----          | National Institute of Mental Health training grant program, fiscal year.   |
| FS 2.22/43: nos-----           | Research profiles.   |
| FS 2.22/44: date-----          | Annual Conference of Model Reporting Area for Mental Hospital Statistics, proceedings, panel presentations, etc.   |
| FS 2.22/45: date-----          | Proceedings of annual conference, mental health career development program.  |
| FS 2.22/46: date-----          | Patient movement data, State and county mental hospitals (annual).<br>NOTE.—See, for earlier class, FS 2.22: M 52/39/ date.  |
| FS 2.64/6: date-----           | Public Health Service.<br>Building for clean water, progress report on Federal incentive grants for municipal waste treatment, fiscal year.<br>NOTE.—See, for earlier class, FS 2.2: W 29/29: (date).    |



- FS 2.64/7: date----- Water pollution control research and training grants, list of awards, research grants, research fellowships, training grants, demonstration grants.  
NOTE.—See, for earlier class, FS 2.2: W 29/47/ date.
- FS 2.74/4: nos----- Hospital and medical facilities series, health professions education.  
National Library of Medicine.
- FS 2.208/3: date----- List of journals indexed in Index medicus.  
Public Health Service.
- FS 2.300/3: date----- Research grants, environmental engineering and food protection, fiscal year.
- FS 2.303: date----- Activities report, Basic and Applied Sciences Branch, Division of Water Supply and Pollution Control (annual).  
Social Security Administration.
- FS 3.49/2: date----- Index to Research reports and Research and statistics notes.  
Education Office.
- FS 5.74: v.nos.& nos----- HE instruction in agriculture, programs, activities, developments.
- FS 5.287: nos----- Manpower development and training, OE 87000 to OE 87999.  
Vocational Rehabilitation Administration.
- FS 13.219: nos----- Program administration review, PAR-(nos.) (biennial).  
Welfare Administration.
- FS 14.8: CT----- Handbooks, manuals, guides.
- FS 14.9: nos----- Aging (monthly).  
NOTE.—See, for earlier class, FS 1.13: (nos.).
- FS 14.9/a: CT----- Aging (separates).
- FS 14.9/5: nos----- Patterns for progress in aging, case studies.  
NOTE.—See, for earlier class, FS 1.13/3: (nos.).
- FS 14.10/a: CT----- Welfare in review (separates).
- FS 14.10/2: date----- Welfare in review, statistical supplement.
- FS 14.12: CT----- Federal assistance for projects in aging.
- FS 14.13: CT----- Bibliographies and lists of publications.
- FS 14.14: nos----- Welfare research reports.  
Children's Bureau.
- FS 14.110/2: CT----- Jessie M. Bierman annual lectures in maternal and child health.
- FS 14.119: CT----- Facts about children.
- FS 14.120: date----- Project on cost analysis in children's institutions.  
NOTE.—See, for earlier class, FS 14.102: In 7.
- FS 14.208/3: CT----- Family Services Bureau.  
Mental health in public assistance (series).
- FS 14.209: date----- Advance release of statistics on public assistance (monthly).  
NOTE.—See, for earlier class, FS 3.14/2: (date).
- FS 14.210: date----- Unemployed-parent segment of aid to families with dependent children (monthly).  
NOTE.—See, for earlier class, FS 3.39/2: (date).
- FS 14.212: date----- Public assistance, annual statistical date, calendar year.
- FS 14.213: nos----- Public assistance report.  
NOTE.—See, for earlier class, FS 3.13: (nos.).
- FS 14.213/2: nos----- Public assistance information, PAI (series).  
NOTE.—See, for earlier class, FS 3.13/2: (nos.).
- FS 14.214: date----- Reasons for opening and closing public assistance cases.  
NOTE.—See, for earlier class, FS 3.45: (date).
- FS 14.215: date----- Source of funds expended for public assistance payments.  
NOTE.—See, for earlier class, FS 14.202: P 96/2/ date.

- FS 14.216 : CT----- Addresses.  
Federal Supply Service.
- GS 2.10/5 : date----- Federal stock number reference catalog.  
Public Buildings Service.
- GS 6.6/2 : CT----- Handbooks, manuals, guides.  
GS 6.8 : nos----- Historical studies (numbered).  
Federal Housing Administration.
- HH 2.25 : date----- FHA honor awards for residential design.  
Community Facilities Administration.
- HH 5.10 : date----- CFA design awards program (annual).  
Interior Department.
- I 1.91 : CT----- Natural resources [by States].  
Indian Affairs Bureau.
- I 20.48 : CT----- Bibliographies and lists of publications.  
Reclamation Bureau.
- I 27.54 : nos----- Research reports.  
I 27.55 : date----- Crop report and related data (annual).  
NOTE.—See, for earlier class, I 27.2 : C88/date.
- I 28.26/4 : date----- Mines Bureau.  
Safety competition, National Crushed Stone Association, Annual.  
NOTE.—Earlier statistics contained in H.S.S. series, I 28.26 : (nos.).
- I 28.43/2 : date----- International petroleum quarterly.  
NOTE.—Consolidation of International petroleum trade (I 28.43 :), World petroleum statistics (I 28.91 :), and World retail prices and taxes on gasoline, kerosine, and motor lubricating oil (I 28.44 :).
- I 28.98/4 : date----- Natural gas, monthly.
- I 28.109 : date----- Fuel-briquet and packaged-fuel producers, annual.  
NOTE.—Formerly included in numbered series, Information circulars (I 28.27 : nos.).
- I 44.11 : CT----- Bonneville Power Administration.  
Bibliographies and lists of publications.
- I 49.55 : date----- Fish and Wildlife Service.  
Annual waterfowl report, Alaska.
- I 49.56 : -57 : Reserved  
I 49.58 : nos----- Fish protein concentrate reports.  
Outdoor Recreation Bureau.
- I 66.7 : date----- Press releases.  
I 66.10 : Reserved  
I 66.11 : nos----- Publications (numbered).  
I 66.12 : nos----- Statistical series, reports.  
United States Information Agency.
- IA 1.6/2 : CT----- Handbooks, manuals, guides.
- IA 1.17/2 : Reserved  
IA 1.17/3 : CT----- English teaching study units.
- IC 1 ste.38/2 : date----- Interstate Commerce Commission.  
Train and yard service of class 1 railroads in United States, statement Q-210(OS-A).  
NOTE.—Replaces 3 statements: Q-211, Freight train performance (IC 1 ste. 35 :); Q-213, Passenger train performance (IC 1 ste. 37 :); and Q-215, Yard service performance (IC 1 ste. 38 :).
- Ju 10.8/a : CT----- Administrative Office of United States Courts.  
Federal probation (separates).
- L 1.39/2 : nos----- Labor Department.  
Manpower evaluation reports.  
NOTE.—Issued by Office of Manpower, Automation and Training.
- L 1.42/2a : CT----- Manpower report of the President and report on manpower requirements, resources, utilization, and training by Department of Labor (separates).
- L 1.45 : Reserved

|                             |   |
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| L 1.45/2: nos.....          | Demonstration notes, experimental and demonstration manpower programs.  |
| L 1.46: Reserved            |   |
| L 1.47: CT.....             | Laws.   |
| L 1.48: nos.....            | Technical assistance aids.  |
|                             | NOTE.—See, for earlier class, L 31.8: (nos.).   |
| L 1.49: CT.....             | Neighborhood Youth Corps publications.  |
|                             | Employment Security Bureau.   |
| L 7.18/2: v.nos.& nos.....  | Employment Service review (monthly).  |
|                             | NOTE.—Replaces Employment security review (L 7.18:).  |
| L 7.18/2-2: date.....       | Employment Service statistics, supplement to Employment Service review.   |
| L 7.18/3: v.nos.& nos.....  | Unemployment insurance review.  |
|                             | NOTE.—Supersedes Employment security review and Labor market and employment security, L 7.18: and L 7.20:   |
| L 7.18/4: date.....         | Unemployment insurance statistics (monthly).  |
|                             | NOTE.—Contains information formerly included in unemployed, Labor market and employment security, and Statistical supplement to Labor market and employment security. |
|                             | Women's Bureau.   |
| L 13.23: nos.....           | International report IR series.   |
|                             | Labor Standards Bureau.   |
| L 16.47/2: CT.....          | Maritime safety data for shipyards.   |
| L 16.50: nos.....           | Fact sheets.  |
|                             | Apprenticeship and Training Bureau.   |
| L 23.19: nos.....           | Research Division reports.  |
|                             | Veterans' Reemployment Rights Bureau.   |
| L 25.6/2: CT.....           | Handbooks, manuals, guides.   |
|                             | Library of Congress.  |
| LC 1.6/3: Reserved          |   |
| LC 1.6/4: CT.....           | Handbooks, manuals, guides.   |
| LC 1.30/4: v.nos.& nos..... | Israel, accessions list (monthly).  |
|                             | National Aeronautics and Space Administration.  |
| NAS 1.6/2: date.....        | NASA procurement regulation.  |
| NAS 1.6/3: nos.....         | NASA procurement directives (irregular).  |
| NAS 1.9/6: nos.....         | Guide to subject indexes for Scientific and technical aerospace reports.  |
| NAS 1.29: nos.....          | NASA tech briefs.   |
| NAS 1.30: date.....         | Semiannual procurement report.  |
|                             | National Capital Regional Planning Council.   |
| NC 3.1: date.....           | Report.   |
| NC 3.2: CT.....             | General publications.   |
| NC 3.3: -8: Reserved        |   |
| NC 3.9: nos.....            | National Capital Open-Space Project: Technical reports.   |
|                             | National Science Foundation.  |
| NS 1.17/3: nos.....         | International science notes, supplements.   |
|                             | President of United States (Lyndon B. Johnson) (Nov. 22, 1963- ).   |
| Pr 36.1: date.....          | Report.   |
| Pr 36.2: CT.....            | General publications.   |
| Pr 36.3: -6: Reserved       |   |
| Pr 36.7: date.....          | Press releases.   |
| Pr 36.8: CT.....            | Committees and commissions of the President.  |
| Pr 36.9: date.....          | Economic report of the President.   |
|                             | NOTE.—See, for earlier class, Pr 35.9: (date).  |
|                             | Budget Bureau.  |
| PrEx 2.13: Reserved         |   |
| PrEx 2.14: CT.....          | Bibliographies and lists of publications.   |
|                             | Emergency Planning Office.  |
| PrEx 4.6/8: chap.nos.....   | National plan for emergency preparedness.   |
|                             | Science and Technology Office.  |
| PrEx 8.3: -8: Reserved      |   |



|                           |  |
|---------------------------|--|
| PrEx 8.9: date-----       | Federal water resources research program for fiscal year.  |
|                           | State Department.  |
| S 1.67/2: date-----       | Educational and cultural exchange program, fiscal year, American grantees, educational travel, students, teachers, lecturers, research scholars, specialists.                            |
|                           | NOTE.—See, for earlier class, S 1.2: G 76/962.   |
| S 1.67/3: date-----       | Interagency directory, key contacts for planning and development of educational, cultural, scientific and technical exchange programs.   |
| S 1.101/3: nos-----       | External research papers.  |
|                           | NOTE.—Issued by External Research Staff, Bureau of Intelligence and Research.  |
| S 1.101/7: Reserved       |  |
| S 1.101/8: CT-----        | Policy research studies.   |
|                           | NOTE.—Issued by External Research Staff, Bureau of Intelligence and Research.  |
| S 1.114/2-2: CT-----      | Foreign Service Institute, readers.  |
| S 1.121: Reserved         |  |
| S 1.122: date/nos-----    | International science notes.   |
|                           | NOTE.—See, for earlier class, NS 1.17/2: (date/nos.).  |
|                           | International Development Agency.  |
| S 18.26/3: date-----      | Cumulative report of all specific risk investment guaranties issued since the beginning of the program through . . . (quarterly).  |
| S 18.31: -32: Reserved    |  |
| S 18.33: v.nos.& nos----- | Development research digest, journal of selected excerpts, summaries and reprints of current materials on economic and social development; prepared by National Development Association. |
|                           | NOTE.—v. 1, no. 1 has title Development research review.   |
|                           | Small Business Administration.   |
| SBA 1.24: nos-----        | Administrative management course program, topics.  |
|                           | Internal Revenue Service.  |
| T 22.19/5: date-----      | Tobacco tax guide.   |
| T 22.42/2: nos-----       | Technical information release TIR (series).  |
|                           | Coast Guard.   |
| T 47.55: nos-----         | Oceanographic reports.   |
|                           | Veterans Administration.   |
| VA 1.23/3: nos-----       | Bulletin of prosthetics research (semiannual).   |
|                           | Federal Reconstruction and Development Planning Commission for Alaska.   |
| Y 3.A1 1 s/3: 1/date----- | Report.  |
| Y 3.A1 1 s/3: 2 CT-----   | General publications.  |
|                           | Atomic Energy Commission.  |
| Y 3.At 7: 1a CT-----      | Annual report (separates).   |
| Y 3.At 7: 27-2/nos-----   | Isotope developments (irregular).  |
| Y 3.At 7: 48a CT-----     | Fundamental nuclear energy research (separates).   |
| Y 3.At 7: 55/date-----    | Telephone directory.   |
|                           | Federal Council for Science and Technology.  |
| Y 3.F 31/16: 1/date-----  | Reports.   |
| Y 3.F 31/16: 2 CT-----    | General publications.  |
| Y 3.F 31/16: 3-8 Reserved |  |
| Y 3.F 31/16: 9/nos-----   | ICO pamphlet series.   |
|                           | NOTE.—Issued by Interagency Committee on Oceanography.   |
|                           | Joint Publications Research Service.   |
| Y 3.J 66: 15/date-----    | Catalog of current Joint Publications Research Service publications.   |

|                         |   |
|-------------------------|---|
| Y 3.W 58/9: 1/date_____ | White House Conference on Mental Retardation. Report. |
| Y 3.W 58/9: 2 CT_____   | General publications.                                 |
|                         | Government Research, Select Committee on, House.      |
| Y 4.G 74/8: CT_____     | Publications.   |

**Discontinued Series**

|                              |   |
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|                              | Forest Service.   |
| A 13.40/5: nos._____         | Southern Forest Experiment Station: Forest survey releases.   |
|                              | NOTE.—Discontinued with no. 87, 1962.   |
| A 13.40/6: nos._____         | — Occasional papers.  |
|                              | NOTE.—Discontinued with no. 194, [1962].  |
| A 13.40/7: nos._____         | — Southern forestry notes (bimonthly).  |
|                              | NOTE.—Discontinued with no. 142, Nov. 1962.   |
| A 13.68/7: nos._____         | Central States Forest Experiment Station: Technical papers.   |
|                              | NOTE.—Discontinued with no. 192, Dec. 1962.   |
| A 13.68/8: nos._____         | — Miscellaneous releases.   |
|                              | NOTE.—Discontinued with no. 35, Dec. 1962.  |
| A 13.68/9: nos._____         | — Forest survey releases.   |
|                              | NOTE.—Discontinued with no. 22, Feb. 1959.  |
| A 13.68/10: nos._____        | — Station notes.  |
|                              | NOTE.—Discontinued with no. 157, Oct. 1962.   |
| A 85.7: v.nos.& nos._____    | Commodity Exchange Authority.   |
|                              | Trade in cotton futures (monthly).  |
|                              | NOTE.—Discontinued with v. 21, no. 2, Sept. 1963.   |
| A 85.8: v.nos.& nos._____    | Trade in grain futures (monthly).   |
|                              | NOTE.—Discontinued with v. 30, no. 6, Dec. 1963.  |
| A 85.12: nos._____           | Weekly report ["on call" positions and transactions in spot cotton].  |
|                              | NOTE.—Discontinued with no. 31, Aug. 3, 1962.   |
|                              | Economic Research Service.  |
| A 93.18: nos._____           | Publications received (bimonthly).  |
|                              | NOTE.—Discontinued with no. 43, May 1961.   |
|                              | Census Bureau.  |
| C 3.147: date_____           | Quarterly summary of foreign commerce of United States (cumulative year-to-date).   |
|                              | NOTE.—Discontinued with Jan.-June 1961 issue.   |
| C 3.164: 110/date_____       | Foreign trade report: FT 110, United States imports of merchandise for consumption, commodity by country of origin (monthly).   |
|                              | NOTE.—Discontinued with Jan. 1964 issue. Replaced by Foreign trade report FT 125, C 3.164: 125/(date).  |
| C 3.164: 120/date_____       | — FT 120, United States imports of merchandise for consumption, country of origin by SITC commodity group (monthly).  |
|                              | NOTE.—Discontinued with Jan. 1964 issue. Replaced by Foreign trade report FT 125, C 3.164: 125/(date).  |
|                              | Business and Defense Services Administration.   |
| C 41.21/5: v.nos.& nos._____ | Keywords index to U.S. Government technical reports (semimonthly).  |
|                              | NOTE.—Discontinued with v. 2, no. 6, Sept. 1, 1963.   |
|                              | Business Economics Office.  |
| C 43.9: date_____            | Industry survey, manufacturers' sales, inventories, new and unfilled orders (monthly).  |
|                              | NOTE.—Discontinued as publication of Business Economics Office with Oct. 1963 issue, and published by Census Bureau under title Manufacturers' shipments, inventories, and orders, series M3-1. |

- Area Redevelopment Administration.**  
**C 46.9: v.nos.& nos**----- Area redevelopment bulletin (bimonthly).  
 NOTE.—Discontinued with v. 9, no. 2, Mar.-Apr. 1963. Replaced by Redevelopment (monthly), C 46.9/2: (v. nos. & nos.), beginning Feb. 1964.
- D 301.45/15: date/nos**----- **Air Force Department.**  
 OAR index of research results (quarterly).  
 NOTE.—Discontinued with July-Sept. 1962 issue.
- FAA 1.25/3: v.nos.& nos**----- **Federal Aviation Agency.**  
 Airmen's guide, Pacific supplement (semi-monthly).  
 NOTE.—Discontinued with v. 17, no. 18, Mar. 15, 1964. Replaced by Pacific airman's guide and chart supplement, FAA 1.25/5: (v. nos. & nos.).
- FR 1.24: date**----- **Federal Reserve System Board of Governors.**  
 Weekly department store sales, Federal reserve statistical release H.8.a.  
 NOTE.—Discontinued with Feb. 6, 1964, issue.
- FR 1.24/4: date**----- **Monthly department store stocks (statistical release).**  
 NOTE.—Discontinued with Jan. 1964 issue.
- FR 1.24/6: date**----- **Department store merchandising data (statistical release), (monthly).**  
 NOTE.—Discontinued with Jan. 1964 issue.
- FS 5.37: v.nos.& nos**----- **Education Office.**  
 Higher education, reporting Federal activities and matters of national concern (monthly, Sept.-May).  
 NOTE.—Discontinued with v. 20, no. 9, June 1964.
- I 28.43: v.nos.& nos**----- **Mines Bureau.**  
 International petroleum trade, inventory of information from United States Government foreign service offices and other sources that may not otherwise be made available promptly (monthly).  
 NOTE.—Discontinued as separate publication with Mar. 1964 issue; consolidated into International petroleum quarterly beginning July 1964.
- I 28.44: date**----- **World retail prices and taxes on gasoline, kerosine, and motor lubricating oils, inventory of information from United States Government foreign service offices and other sources (annual).**  
 NOTE.—Discontinued as separate publication; consolidated into International petroleum quarterly, beginning July 1964.
- I 28.91: nos**----- **World petroleum statistics (quarterly).**  
 NOTE.—Discontinued as separate publication with Apr. 1964 issue; consolidated into International petroleum quarterly, beginning July 1964.
- IC 1 ste.35: date**----- **Interstate Commerce Commission.**  
 Freight train performance of class 1 railroads in United States, statement Q-211 (quarterly).  
 NOTE.—Discontinued with 4th quarter 1963 issue. Replaced by Train and yard service of class 1 railroads in United States, statement Q-210, IC 1 ste. 38/2: (date).
- IC 1 ste.37: date**----- **Passenger train performance of class 1 railroads in United States, statement Q-213 (quarterly).**  
 NOTE.—Discontinued with 4th quarter 1963 issue. Replaced by Train and yard service of class 1 railroads in United States, statement Q-210, IC 1 ste.38/2: (date).



- IC 1 ste.38 : date----- Yard service performance of class 1 railroads in United States, statement Q-215 (quarterly).  
 NOTE.—Discontinued with 4th quarter 1963 issue. Replaced by Train and yard service of class 1 railroads in United States, statement Q-210, IC 1 ste.38/2 : (date).
- L 7.19 : v.nos.& nos----- Employment Security Bureau.  
 Employment security review (monthly).  
 NOTE.—Discontinued with v. 30, no. 11, 12, Dec. 1963. Replaced by Employment Service review, L 7.18/2 : (v. nos. & nos.) and Unemployment insurance review, L 7.18/3 : (v.nos.& nos.).
- L 7.20 : date----- Labor market and employment security (monthly).  
 NOTE.—Discontinued with Dec. 1963 issue. Replaced by Unemployment insurance review, L 7.18/3 : (v. nos. & nos.) and Employment Service review, L 7.18/2 : (v.nos.& nos.).
- L 7.38/2 : (date)----- Insured unemployed, personal and economic characteristics (monthly).  
 NOTE.—Discontinued with Nov. 1963 issue.
- Pr Ex 4.3/3 : nos----- Emergency Planning Office.  
 Information bulletin, IB (series).  
 NOTE.—Discontinued Oct. 1962.

### Corrections for Previous Monthly Catalogs

- Mar. 1964. Entry 4308, New boundaries of reality, Quillian lecture delivered by Glenn T. Seaborg, chairman, Atomic Energy Commission, at Ministers' Week Convocation celebrating 50th anniversary of Candler School of Theology Emory University, Atlanta, Ga., Jan. 22, 1964. Correct class to read Y 3.At 7 : 34 Se 1/71.
- Entry 4311, Role of science and scientist in today's world, remarks by Glenn T. Seaborg, chairman, Atomic Energy Commission, at Alfred Nobel Dinner sponsored by Swedish Club of Los Angeles, Jan. 11, 1964. Correct class to read Y 3.At 7 : 34 Se 1/70.
- Entry 5417, Address by Secretary of Labor W. Willard Wirtz, before National Committee on Employment of Youth, Washington, D.C., Nov. 6, 1963. Correct class to read L 1.13 : W 74/33. This publication was previously listed in the January 1964 Monthly catalog, Entry 1360.
- July 1964. Entry 12275, Soviet political agreements and results, v. 1. Correct class to read Y 4.J 89/2 : So 8/6/964/v.1.
- Entry 12276, Soviet political agreements and results, v. 2. Correct class to read Y 4.J 89/2 : So 8/6/964/v.2.
- Oct. 1964. Entries 18182-18187, Overseas business report OBR 64-86 to 64-92. The class has been changed from C 42.20 : (nos.) to C 1.50 : (nos.).

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- 20894 Statutory and administrative controls associated with Federal grants for public assistance. May 1964. x+108+[1] p. (Commission report, A-21.) † • Item 1049-D  
L.C. card 64-65457 Y 3.Ad 9/8:2 G 76/5

## AGRICULTURAL MARKETING SERVICE, Agriculture Dept. Washington, D.C. 20250

AMS (series).

- 20895 277. Rice, annual market summary, 1964. [Oct. 1964.] 47 p. il. 4° (Grain Division.) † • Item 19-A  
L.C. card 59-60334 A 88.40:277/964

## AGRICULTURAL RESEARCH SERVICE, Agriculture Dept. Washington, D.C. 20250

ARS (series). †

A 77.15: (nos.)

- 20896 33-97. Temperature and rainfall as they affect corn earworm damage to dent corn; by R. A. Blanchard, W. A. Douglas, and C. A. Henderson. Sept. 1964. 7 p. 4°  
L.C. card Agr 64-494
- 20897 33-98. Potential role of sterility method for insect population control with special reference to combining this method with conventional methods [with list of references; by E. F. Knipling]. Nov. 1964. iv+54+[1] p. 4° • Item 25-B  
L.C. card Agr 64-495
- 20898 41-75-6. Abstracts of recent published material on soil and water conservation, no. 30; [abstracted by Charles B. Crook.] [Oct. 1964.] cover title, [2]+113 p. 4° [Text on p. 2 of cover.] • Item 25-B  
L.C. card Agr 49-669
- 20899 44-149. DHIA sire summary list, Aug. 1964, Ayrshire, Guernsey, Holstein, Jersey, Brown Swiss, Milking Shorthorn, Red Dane, Red Foll, and mixed breed sires. Oct. 1964. cover title, 304 p. 4° [Text on p. 2 of cover.] • Item 25-B  
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- 20900 51-1. Relationship of fungicides and field spacings to Botrytis neck rot of onions grown in New York; [by J. Kaufman, J. W. Lorbeer, and B. A. Friedman]. Oct. 1964. ii+6 p. 4°  
L.C. card Agr 64-489
- 20901 52-1. Transporting bales of cotton with large clamp trucks; [by Charles D. Bolt]. Oct. 1964. 14+[1] p. il. 4°  
L.C. card Agr 64-499
- 20902 62-10-1. Calculating nutritive value of diets, manual of instructions for use of punch cards for machine tabulation; [prepared by Elizabeth Davenport]. Sept. 1964. cover title, 45 p. il. 4° [Some pages are issued as leaves. Supersedes manual of same title dated July 1960.]

[Correspondence aids] CA-(series). †

- 20903 41-2. Preparing potted mediums and composts [with list of references]; by R. S. Dyal. Sept. 1964. 11 p. 4° (Soil and Water Conservation Research Division.) A 77.18:41-2
- 20904 Manual of meat inspection procedures of Department of Agriculture. [Revised Sept. 1964.] [1964.] cover title, [1]+295+52 p. 12° (Meat Inspection Division.) † • Item 30-A  
L.C. card 60-61887 A 77.206/2: M 46/964

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# GOVERNMENT PUBLICATIONS

- 20905 [Plant quarantine import requirements of Denmark, Aug. 3, 1964], Change in entry requirements for carnations and chrysanthemums. Sept. 16, 1964. 1 p. (Plant Quarantine Division; Denmark 353-A.) [Issued with perforations.] † A 77.329: D 417/ch.

## AGRICULTURAL STABILIZATION AND CONSERVATION SERVICE, Agriculture Dept., Washington, D.C. 20250

- 20906 Agricultural conservation program, statistical summary, 1963. [Oct. 1964.] cover title, 141 p. il. 4° [Text on p. 2 of cover.] † ● Item 103-B  
L.C. card 59-31739 A 82.37: Su 6/2/963

## AGRICULTURE DEPARTMENT Washington, D.C. 20250

NOTE.—Requests to the Department of Agriculture for publications should include the USDA number if given in the entry.

- 20907 Address by Secretary of Agriculture Orville L. Freeman at luncheon of Export Advisory Committee to Governor of Illinois, Chicago, Ill., Sept. 25, 1964. [1964.] 12 p. 4° (USDA 3253-64.) † A 1.40: F 87/167

### Agriculture handbooks. ● Item 3 A 1.76: (nos.)

- 20908 38. First aid for flooded homes and farms. [Revised Nov. 1964.] [1964.] 28 p. il. \* Paper, 15c.  
20909 116. Workers in subjects pertaining to agriculture in land-grant colleges and experiment stations, 1964-65. [Nov. 1964.] iv+255 p. (Cooperative State Research Service.) \* Paper, 70c.  
L.C. card 25-1482

### Agriculture information bulletins. ● Item 4 A 1.75: (nos.)

- 20910 285. Protecting trees against damage from construction work; [prepared by Crops Research Division, Agricultural Research Service]. [Sept. 1964.] [2]+26 p. il. \* Paper, 15c.  
L.C. card Agr 64-485  
20911 290. Balance sheet of agriculture, 1964: [by Fred L. Garlock, and others]. [Oct. 1964.] [2]+24 p. il. 4° (Economic Research Service.) \* Paper, 20c.  
L.C. card Agr 45-296

### Farmers' bulletins. ● Item 9 A 1.9: (nos.)

- 20912 1043. Strawberry varieties in United States; [by George M. Darrow, D. H. Scott, and George F. Waldo]. [Revised Oct. 1964.] [1964.] 20 p. il. ([Crops Research Division, Agricultural Research Service.]) \* Paper, 15c.  
L.C. card Agr 64-486  
20913 2015. Ornamental woody vines for southern Great Plains; [by E. W. Johnson]. [July 1950, slightly revised Oct. 1964.] [1964.] ii+22 p. il. †  
20914 2019. Ornamental hedges for Central Great Plains; [by A. C. Hildreth]. [Oct. 1950, slightly revised Oct. 1964.] [1964.] [2]+25 p. il. \* Paper, 15c.  
20915 2106. 16 plants poisonous to livestock in Western States, arrowgrass, bracken fern, chokecherry, copperweed, death camas, greasewood, halogeton, horsebrush, larkspur, locoweed, lupine, milkweed, oak brush, rubberweed, sneezeweed, water hemlock; [prepared by Animal Disease and Parasite Research Division and Crops Research Division, Agricultural Research Service]. [Revised June 1963, slightly revised Aug. 1964.] [1964.] [2]+49 p. il. [Plant sketches used with permission, MacMillan Co., from W. C. Muencher, Poisonous plants of United States, 1951. Illustrations are colored.] \* Paper, 35c.  
20916 2130. Rope on farm; [by J. R. McCalmont]. [Apr. 1959, slightly revised Oct. 1964.] [1964.] 16 p. il. ([Agricultural Engineering Division, Agricultural Research Service.]) [Supersedes Farmers' bulletin 1931, Care and use of rope on farm.] \* Paper, 10c.  
20917 2131. Raising rabbits; [prepared by Animal Husbandry Research Division, Agricultural Research Service]. [Revised Oct. 1964.] [1964.] 24 p. il. \* Paper, 15c.  
L.C. card Agr 64-488  
20918 2158. Chemical control of brush and trees; [prepared by Crops Research Division and Agricultural Engineering Research Division, Agricultural Research Service]. [Apr. 1961, slightly revised Nov. 1964.] [1964.] 23 p. il. \* Paper, 15c.

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20919 [This entry number not used.]

**Home and garden bulletins. ● Item 11**

**A 1.77: (nos.)**

- 20920 67. Insects and related pests of house plants, how to control them; [by George V. Johnson and Floyd F. Smith]. [May 1960, slightly revised Nov. 1964.] [1964.] 16 p. il. ([Entomology Research Division, Agricultural Research Service.]) \* Paper, 10c.
- 20921 99. Planning bathrooms for today's homes [with list of publications for more information; prepared by Mildred S. Howard and W. Russell Parker]. [Nov. 1964.] 20 p. il. 4° ([Clothing and Housing Research Division, Agricultural Research Service.]) [Supersedes Home and garden bulletin 19, Your farmhouse, planning the bathroom.] \* Paper, 15c.  
L.C. card Agr 64-506
- 20922 100. Equipment for cooling your home; [prepared by Agricultural Research Division, Agricultural Research Service.] [Nov. 1964.] 8 p. il. \* Paper, 5c.  
L.C. card Agr 64-502
- 20923 101. Home laundering, equipment and job; [prepared by Clothing and Housing Research Division, Agricultural Research Service.]. [Oct. 1964.] 24 p. il. [Supersedes Farmers' bulletin 1497, Methods and equipment for home laundering.] \* Paper, 15c.  
L.C. card Agr 64-505

- 20923A Individualism in changing world, address by Assistant Secretary of Agriculture George L. Mehren at annual meeting of Texas Citrus Mutual, McAllen, Tex., Sept. 15, 1964. [1964.] 11 p. 4° (USDA 3064-64.) †

**A 1.40: M 47/19**

**Leaflets. ● Item 12**

**A 1.35: (nos.)**

- 20924 278. Tomatoes on your table; [prepared by Human Nutrition Research Division, Agricultural Research Service.]. [Revised Oct. 1964.] [1964.] 16 p. il. narrow 8° \* Paper, 10c.  
L.C. card Agr 64-492
- 20925 452. Replenishing underground water supplies on farm; [by Dean C. Muckel.] [Sept. 1959, slightly revised Oct. 1964.] [1964.] 8 p. il. \* Paper, 5c.
- 20926 531. Growing red clover. [Nov. 1964.] 8 p. il. (Crops Research Division, Agricultural Research Service.) \* Paper, 5c.  
L.C. card Agr 64-491
- 20927 532. How to plan a shooting field in Northeast and Corn Belt; [by Philip F. Allen, Olan W. Dillon, jr., and H. Granville Smith.]. [Oct. 1964.] 8 p. il. 4° (Soil Conservation Service. \* Paper, 10c.

**Marketing bulletin. ● Item 13-G**

- 20928 35. Market your fresh apples; [by W. W. Morrison.]. [Oct. 1964.] 20 p. il. (Agricultural Marketing Service, Fruit and Vegetable Division.) [Includes list of other USDA publications on apples. Contains copyright material.] \* Paper, 15c.  
L.C. card Agr 64-501

**A 1.95: 35**

**Marketing research report. ● Item 13-B**

- 20929 679. Packing mature green tomatoes, costs, efficiencies, and economies of scale in Lower Rio Grande Valley of Texas; [by Robert W. Bohall, Raymond O. P. Farrish and Joseph C. Podany.]. [Nov. 1964.] vi+45 p. il. 4° (Economic Research Service, Marketing Economics Division.) \* Paper, 30c.  
L.C. card Agr 64-496

**A 1.82: 679**

**Miscellaneous publication. ● Item 13-A**

- 20930 972. Your career as extension agent. [Oct. 1964.] [8] p. il. narrow 8° (Federal Extension Service.) †

**A 1.38: 972**

**PA [Program aid] (series). ● Item 14-A**

**A 1.68: (nos.)**

- 20931 627. Federal all-risk crop insurance, why. [1964.] [16] p. il. 4° (Federal Crop Insurance Corporation.) [Supersedes PA-421, What about Federal crop insurance? Oct. 1964.] †  
L.C. card Agr 64-504
- 20932 640. Housing for senior citizens (loans for rental housing for senior citizens in rural areas). [Oct. 1964.] [2] p. il. oblong 8°, folded into narrow 8° size. (Farmers Home Administration.) †

- 20933 Profiles, careers in Department of Agriculture. [Sept. 1964.] [179] p.+ 9 leaves, 4° [Issued with marginal index tabs. Supersedes Agriculture handbook 45, Career service opportunities in Department of Agriculture.]

\* Paper, \$2.00. ● Item 10

L.C. card Agr 64-482

**A 1.2: P 94/8**

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# GOVERNMENT PUBLICATIONS

## AIR FORCE ACADEMY, Colo. Defense Dept. United States Air Force Academy, Colo. 80840

### Special bibliography series.

- 20934 30. Unconventional warfare: pt. 4, Propaganda. Aug. 1964. [5]+45 p. 12°  
(USAFARP 212-1, no. 2.) † D 305.12:30  
L.C. card 62-61685 D 305.12:30

## AIR FORCE DEPARTMENT, Defense Dept. Washington, D.C. 20330

### AFCRL (series). (Air Force Cambridge Research Laboratories, Office of Aerospace Research) D 301.45/4-3: (nos.)

- 20935 64-698. Studies of metastable atoms and molecules using beam techniques [with  
list of references; by] Nathaniel F. Carelton. Aug. 1964. [3] p.+11+  
11+[1] leaves, 4° (Smithsonian Astrophysical Observatory, Cam-  
bridge, Mass. 02138, contract AF 19(628)-2949, final report, project  
7661, task 766104.) Φ (Price upon application).
- 20936 64-718. See, below, Environmental research papers 44.  
20937 64-723. See, below, Environmental research papers, 45.  
20938 64-740. See, below, Environmental research papers 46.  
20939 64-753. See, below, Environmental research papers 47.  
20940 64-754. See, below, Environmental research papers 48.  
20941 64-770. See, below, Environmental research papers 49.  
20942 64-785. See, below, Environmental research papers 50.  
20943 64-786. See, below, Environmental research papers 51.  
20944 64-787. See, below, Environmental research papers 52.  
20945 64-789. See, below, Environmental research papers 54.  
20946 64-790. See, below, Environmental research papers 55.

### Air Force Flight Test Center: Technical documentary report FTC-TDR (series). (Air Force Systems Command, Edwards Air Force Base, Calif.) † D 301.45/31-2: (nos.)

- 20947 64-4. Investigation of X-15 research vehicle auxiliary power union pinion gear  
wear and failure problem; [by] Reuben E. Taylor. Oct. 1964. cover  
title, iii-iv+56 p. il. 4° [Foreword pasted on p. iii.]
- 20948 64-26. Vibration analysis of AFFTC VTOL test stand [with list of references;  
by] John C. Durrett. Oct. 1964. cover title, iii-iv+12 p. il. 4°

### Air Force manual AFM (series). † ● Item 421 D 301.7: (nos.)

- 20949 95-11. Ground cameras and photo lab equipment; [Oct. 1, 1964]. [1964.]  
iii+[483] p. il. 4° [Published by Air Training Command in accord-  
ance with AFR 5-5. Issued in loose-leaf form. Supersedes AFM  
95-11, Handbook of photo lab processing, Apr. 1, 1960.]  
L.C. card 64-65572
- 20950 160-48A. Medical service: Laboratory procedures in parasitology, Change A;  
July 22, 1964. [1964.] [8] p. il. 4° [Issued in loose-leaf form.]

### Air Force pamphlet AFP (series). ● Item 421-A

- 20951 67-2-4. Supply: Guidelines for identifications of metals. Oct. 20, 1964. cover  
title, 16 p. narrow 16° [Text on p. 2 of cover.] † D 301.35: 67-2-4
- 20952 190-4-6. See, below, Armed Forces Information and Education, Pocket guide to  
France.
- 20953 211-1-9. See Armed Forces Information and Education, DOD pamphlet PA-7.
- 20954 211-1-10. See Armed Forces Information and Education, DOD pamphlet PA-1.

### Arctic Aeromedical Laboratory: Technical documentary report AAL- TDR (series). (Aerospace Medical Division, Air Force Systems Com- mand, Fort Wainwright, Alaska.) D 301.45/30-2: (nos.)

- 20955 63-35. Effects of immersion of hand in cold water on digital blood flow [with  
list of references]; prepared by A. C. L. Hsieh, T. Nagasaka and L. D.  
Carlson. Mar. 1964. cover title, iii+11 p. il. 4° (Project 8237, task  
823702.) [Prepared under contract AF 41(657)-335 by Department  
of Physiology and Biophysics, University of Kentucky, Lexington, Ky.]  
Φ (Price upon application.)
- 20956 63-38. Color removal from surface waters by hypochlorite [with list of refer-  
ences]; prepared by D. J. Baumgartner. Aug. 1964. cover title,  
[1]+14 p. il. 4° (Project 8246, task 8246-1.) [Prepared under cross  
service agreement CSA 61-1 by Arctic Health Research Center, Public  
Health Service, Department of Health, Education, and Welfare, An-  
chorage, Alaska.] Φ (Price upon application.)

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Electronic Systems Division: Technical documentary report ESD-TDR (series). (Electronic Systems Division, Air Force Systems Command, L. G. Hanscom Field, Bedford, Mass.)  $\Phi$  (Price upon application.)

- 20957 64-609. Decision Sciences Laboratory biennial progress report, July 1962-June 1964 [with bibliographies]. Oct. 1964. iv+42+[2] p. 4° (Decision Sciences Laboratory.)

Environmental research papers. (Air Force Cambridge Research Laboratories, Office of Aerospace Research, L. G. Hanscom Field, Mass.)

D 301.45/39: (nos.)

- 20958 44. Height variation of vertical heat flux near ground [with list of references; by] W. P. Elliott. Sept. 1964. [3]+260-265 p. il. 4° (AFCRL-64-718; Meteorology Laboratory project 7655.) [Reprinted from Quarterly Journal of Royal Meteorological Society, v. 90, no. 385, July 1964.]  $\dagger$
- 20959 47. Study of auroral echoes at 19.4 megacycles per second [with list of references; by] Chester Malik, Jules Aarons. Sept. 1964. [1]+2731-36+[2] p. il. 4° (AFCRL-64-753; Space Physics Laboratory project 5629.) [Reprinted from Journal of geophysical research, v. 69, no. 13, July 1, 1964.]  $\dagger$
- 20960 48. Notes on Wright's interpretation of temporal variation of O/N<sub>2</sub> ratio in thermosphere [with list of references; by] H. E. Hinteregger. Sept. 1964. [1]+2854-56 p. 4° (AFCRL-64-754; Upper Atmosphere Physics Laboratory Project 6688.) [Reprinted from Journal of geophysical research, v. 69, no. 13, July 1, 1964.]  $\dagger$
- 20961 49. Study of fine structures in solar chromosphere [with list of references; by] J. M. Beckers. Sept. 1964. ix+122+[2] p. il. 4° (AFCRL 64-770; Sacramento Peak Observatory, Space Physics Laboratory project 7649.)  $\Phi$  (Price upon application.)
- 20962 50. Observations of ionospheric wind patterns through night [with list of references; by] N. W. Rosenberg, H. D. Edwards. Sept. 1964. [1]+2819-26+[2] p. il. 4° (AFCRL-64-785; Upper Atmosphere Physics Laboratory project 7635.) [Reprinted from Journal of geophysical research, v. 69, no. 13, July 1, 1964.]  $\dagger$
- 20963 51. Ionospheric temperatures obtained from photography of shock waves [with list of references; by] N. W. Rosenberg. Sept. 1964. [1]+2323-28 p. il. 4° (AFCRL-64-786; Upper Atmosphere Physics Laboratory project 7635.) [Reprinted from Journal of geophysical research, v. 69, no. 11, June 1, 1964.]  $\dagger$
- 20964 52. Mutually consistent magnetic charts based on orthogonal functions [with list of references; by] Paul F. Fougere. Sept. 1964. [3]+2641-48 p. il. 4° (AFCRL-64-787; Space Physics Laboratory project 7601.) [Reprinted from Journal of geophysical research, v. 69, no. 12, June 15, 1964.]  $\dagger$
- 20965 54. Solar XUV-spectrum from 310 Å to 55 Å [with list of references; by] H. E. Hinteregger, L. A. Hall, W. Schweizer. Sept. 1964. [1]+319-327+[2] p. il. 4° (AFCRL-64-789; Upper Atmosphere Physics Laboratory project 6688.) [Reprinted from Astrophysical journal, v. 140, no. 1, July 1, 1964.]  $\dagger$
- 20966 55. Identification and significance of orographically induced clouds observed by TIROS satellites [with list of references; by] John H. Conover. Sept. 1964. [3]+226-234+[2] p. il. 4° (AFCRL-64-790; Meteorology Laboratory project 6698.) [Reprinted from Journal of applied meteorology, v. 3, no. 3, June 1964.]  $\dagger$

- 20967 Geophysics and space data bulletin; Anne L. Carrigan, Norman J. Oliver, editors. (Air Force Cambridge Research Laboratories, Office of Aerospace Research, L. G. Hanscom Field, Mass.) [Irregular.]  $\dagger$

D 301.45/43: (nos.)

no. 1— July 1964—

Lunar charts and mosaics [charts of the moon] series.

NOTE.—The 1st series of charts consisting of LEM-1, 1A, LAC 58, 76, 57, 75, 74, 93, 60, 61, 78, 79, 59, 77, and 56 may be purchased as a set, \*\$7.50 per set.

The 2nd series, which when complete will include IEM-1B, LAC 41, 40, 39, 62, 80, 94, 42, and 95, may also be purchased on subscription basis, \*\$5.50, \$1.50 additional for foreign mailing.

- 20968 LAC 41. Montes Apenninus. Scale 1:1,000,000. 1st edition. Sept. 1963. Aeronautical Chart and Information Center [Sept. 1963]. 22 x 29 in. [Lambert conformal projection, standard parallels 21°20' and 42°40'. Published for Air Force and National Aeronautics and Space Administration.] \* 50c.  
D 301.49/4: LAC 41

- 20969 OAR quarterly index of current research results. (Office of Aerospace Research.)  $\Phi$  (Price upon application.)  $\bullet$  Item 422-B

D 301.69/8: (date)

Apr. 1-June 30, 1964—

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## GOVERNMENT PUBLICATIONS

**Personnel Research Laboratory:** Technical documentary report PRL-TDR (series). (Aerospace Medical Division, Air Force Systems Command, Lackland Air Force Base, Tex.) D 301.45/27: (nos.)

- 20970 64-20. Contribution of education to rated effectiveness of weather officers [with list of references]; by Chester J. Judy. July 1964. iii+7+ [2] p. 4° (Project 6755, task 675502.) ‡ (Price upon application.)
- 20971 64-21. Relation of job qualification ratings to performance ratings of basic training instructors [with list of references]; by Llewellyn Wiley. July 1964. iii+7+ [2] p. 4° (Project 7734, task 773404.) ‡ (Price upon application.)

**Rome Air Development Center:** Technical documentary report RADC-TDR (series). (Air Force Systems Command, Griffiss Air Force Base, N.Y.)

- 20972 64-194. Adaptive programming techniques for circuit design [with bibliography]. June 1964. v+99 p. il. 4° (Project 5581, task 558104; Information Processing Branch, Research and Technology Division.) [Prepared under contract AF 30(602)-2961 by General Dynamics/Electronics, 1400 N. Goodman St., P.O. Box 226, Rochester, N.Y.] ‡ Paper, \$4.00 (AD 602110). D 301.57/3: 64-194

**School of Aerospace Medicine:** Technical documentary report SAM-TDR (series). (Aerospace Medical Division (AFSC), Brooks Air Force Base, Tex.) ‡

- 20973 64-41. Effects of miscellaneous wastes on mesophilic activated sludge, soaps, detergents, and vomitus [with list of references; by R. W. Okey, R. L. Cohen, D. D. Chapman]. Aug. 1960. cover title. iii+9 p. il. 4° (Task 793001.) [Prepared under contract AF 41 (657)-387 by Boeing Company.] ‡ D 301.26/13-6: 64-41

### AIR TRAFFIC SERVICE, Federal Aviation Agency Washington, D.C. 20553

- 20974 [ATS handbook]: Revised pages to service C weather schedules, AT P 7330.3A [Change 3, Sept. 22, 1964.] [1964.] [53] p. 4° [Cancellation date Mar. 1, 1965. Issued in loose-leaf form.] ‡ ● Item 431-D-1  
FAA 3.8: W 37/3/963/ch.3
- 20975 Communications procedures handbook, AT P 7300.1A, Change 2; [Sept. 28, 1964.] [1964.] [82] p. 4° [Effective date Nov. 17, 1964. Cancellation date Feb. 1, 1965. Issued in loose-leaf form.] \* Paper, \$3.00 (including basic handbook and supplementary material for an indefinite period); \$1.00 additional for foreign mailing. ● Item 431-D-2  
FAA 3.9/2: 964/ch.2
- 20976 International flight information manual, v. 12, Apr. 1964, amdt. 2; Oct. 1964. [1964.] [52] p. 4° (Flight Information Division, National Flight Data Center (AT-650).) [Issued in loose-leaf form.] \* Paper, \$1.00 (including basic manual and supplementary service for 1 yr.); 25c. additional for foreign mailing. ● Item 431-C-18 FAA 3.13: 12/amdt.2

### APPRENTICESHIP AND TRAINING BUREAU, Labor Dept. Washington, D.C. 20210

- 20977 Employer's guide to on-the-job training under Manpower development and training act. [1964.] [19] p. il. narrow 8° ‡ ● Item 748-C  
L 23.6/2: Em 7
- 20978 National painting and decorating apprenticeship and training standards adopted by National Joint Painting and Decorating Apprenticeship and Training Committee, representing Brotherhood of Painters, Decorators, and Paperhangers of America and Painting and Decorating Contractors of America, in conformance with basic standards recommended by Bureau of Apprenticeship and Training. 1964 edition. [1964.] cover title, ix+22 p. il. [Text on p. 2 and 3 of cover.] ‡ ● Item 748  
L.C. card L 51-106 L 23.2: P 16/964

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**AREA REDEVELOPMENT ADMINISTRATION, Commerce Dept.  
Washington, D.C. 20230**

- 20979 ARA field report: Opportunities for economic growth in Early County, Ga., redevelopment area. Oct. 1964. 8 p. il. 4° † Paper, 10c. C 46.22: Ea 7
- 20980 Economic redevelopment research: Geographic mobility of labor, summary report; [prepared by John B. Lansing and Nancy Barth]. Sept. 1964. 34 p. il. \* Paper, 20c. ● Item 130-1  
L.C. card 64-6077 C 46.24: G 29/3

**ARMED FORCES EDUCATION AND INFORMATION, Defense Dept.,  
Washington, D.C. 20301**

- DOD pamphlets. † ● Item 312-A D 2.14: (letters-nos.)
- 20981 PA-1. Disability separation, facts for your future. [1964.] iii+55 p. il. oblong 48° ([Army Dept., DA Pam. 360-506; Navy Dept. NAVPERS 15863D; Air Force Dept., AFP 211-1-10; Marine Corps, NAVMC 1117-FD (rev. 64.); Coast Guard, CG 283.]) [Supersedes DOD Pam 6-1B, DA Pam 21-48; NAVPERS 15863C; AFP 34-4-1; NAVMC 1117-FD (rev. 60); CG 283, May 17, 1960.]
- 20982 PA-7. Retired servicemen's family protection plan. [Sept. 21, 1964.] 12 p. il. 4° ([Army Dept., DA Pam 360-507; Navy Dept., NAVPERS 15926B; Air Force Dept., AFP 211-1-9; Marine Corps, NAVMC 2506 (rev. 64); Coast Guard, CG-360.] [Supersedes DOD Pam 6-12A, DA Pam 355-121, NAVPERS 15926A, AFP 34-4-6, NAVMC 2506 (rev. 61), CG-360, Dec. 11, 1961.]
- 20983 PG-2. See, below, Pocket guide to France.
- For commanders, this changing world. [Semimonthly.] \* Paper, \$1.00 a yr., 50c. additional for foreign mailing; single copy, 5c. ● Item 312-B  
D 2.15: (nos.)
- 20984 v. 4, no. 8. Armed forces internal information program, address delivered by Assistant Secretary of Defense (Manpower), Norman S. Paul, to 1st graduating class of Defense Information School, at Fort Slocum, N.Y., on Sept. 18, 1964. Oct. 15, 1964. 4 p. 4° \* Paper, 5c.
- 20985 v. 4, no. 9. Responsibilities of a global power [address by Under Secretary of State George W. Ball at luncheon of Chicago Council on Foreign Relations, Chicago, Ill., Sept. 18, 1964.] [1964.] 4 p. 4° \* Paper, 5c.
- 20986 Pocket guide to France. [Revised 1964.] [1964.] cover title, vi+42 p. il. small 4° ([Armed Forces Information and Education] DOD PG-2; [Army Dept.] DA pamphlet 360-402; [Navy Dept.] NAVPERS 92290A; [Air Force Dept.] AFP 190-4-6; [Marine Corps] NAVMC 1128, rev. 64.) [Text and other illustrations on p. 1-4 of cover. Supersedes DOD pamphlet 2-10, DA pamphlet 20-191, NAVPERS 92290, AFP 34-3-15, NAVMC 1128, Aug. 23, 1956.] \* Paper, 25c. ● Item 312-A  
D 2.8: F 84/964

**ARMY DEPARTMENT, Defense Dept.  
Washington, D.C. 20310**

- AMC historical studies. (Historical Office, Army Materiel Command.)
- 20987 1. Concept of project management; by Raymond J. Snodgrass. 1964. vii+250 p. 4° [Includes lists of references in footnotes.] † ● Item 225-E  
L.C. card 64-62990 D 101.65: 1
- AMC pamphlets. (Army Materiel Command) † ● Item 322-A  
D 101.22/3: (nos.)
- 20988 310-1. Military publications, index of AMC publications. Oct. 1964. cover title, 52 p. 4° (AMCP 310-1.) [Issued with perforations. Supersedes AMCP 310-1, June 30, 1964.]
- 20989 706-106. Research and development of material, engineering design handbook: Elements of armament engineering, pt. 1, Sources of energy [with lists of references]. Aug. 1964. cover title, xii+[90] p. il. 4° [Produced from text material prepared for use at U.S. Military Academy. Issued with perforations. Reprint without change of ORDP 20-106.]  
L.C. card 64-65579

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# GOVERNMENT PUBLICATIONS

## Field manual FM (series). ● Item 324

- 20990 10-8. Air delivery of supplies and equipment in field army [with list of references]. Oct. 1964. cover title, 62 p. il. 4° [Supersedes FM 10-33, Dec. 11, 1961, FM 10-40, July 6, 1959, FM 10-41, July 10, 1961.] ‡  
L.C. card 64-65562 D 101.20:10-8

## Pamphlets ● Item 327

D 101.22:(nos.)

- 20991 12-626. Enlisted evaluation system MOS evaluation test aid for construction machine operator (MOS code 626), effective until Oct. 31, 1965 unless sooner rescinded. Sept. 1964. [1]+17 p. [Supersedes DA pam 12-626, Aug. 16, 1963.] ‡
- 20992 27-101-164. Judge Advocate legal service. Oct. 7, 1964. 14 p. [Issued with perforations.] ‡
- 20993 27-101-165. Same: Oct. 21, 1964. 16 p. [Issued with perforations.] ‡
- 20994 135-2. Briefing on reemployment rights of members of Army National Guard and Army Reserve. Oct. 28, 1964. 10 p. 4° [Supersedes DA pamphlet 135-2, Nov. 1, 1960, including C 1, Dec. 27, 1960 and C 4, July 5, 1962.] ‡
- 20995 360-40. This is the Army. Aug. 1964. cover title, 24 p. il. 4° [Text on p. 2 of cover.] ‡
- 20996 360-402. See, above, Armed Forces Information and Education, Pocket guide to France.
- 20997 360-506. See Armed Forces Information and Education, DOD pamphlet PA-1.
- 20998 360-507. See Armed Forces Information and Education, DOD pamphlet PA-7.
- 20999 385-1. Unit safety management [with list of references]. Oct. 1964. cover title, iii+50 p. il. 4° [Issued with perforations. Supersedes DA pam. 385-1, Aug. 16, 1962.] ‡  
L.C. card 64-65490.
- 21000 608-8. Helpful hints for personnel ordered to Canal Zone, U.S. Army Forces, Southern Command. Sept. 1964. iii+26 p. narrow 12° [Supersedes DA pamphlet 21-75, June 27, 1960 and Changes 1, Mar. 28, 1961.] ‡
- 21001 750-4. Combat readiness. Aug. 19, 1964. 16 p. il. 4° ‡
- 21002 750-38. Improved Army equipment record procedures; Jan. 15, 1964. Aug. 25, 1964. cover title, 81 p. il. 4° [Text on p. 2 of cover. Supersedes DA pam 38-750, Oct. 10, 1962.] ‡

## Technical manual TM (series). ● Item 329

D 101.11:(nos.)

- 21003 5-681. Repairs and utilities: Preventive maintenance for electrical facilities, Change 1; Sept. 25, 1964. [1964.] 2 p. 4° [Issued with perforations.] ‡
- 21004 10-269. General repair for canvas and webbing, Change 1. Sept. 17, 1964. 2 p. 4° [Issued with perforations.] ‡
- 21005 55-404. Fundamentals of Army airplane maintenance [with list of references]. Aug. 1964. cover title, 166 p. il. 4° [Issued with perforations. Supersedes TM 55-404, Dec. 10, 1959.] ‡

## USAPRO technical research notes. (Army Personnel Research Office.)

D 101.60:(nos.)

- 21006 148. Combat performance of EM with disciplinary records [with list of references; by] A. U. Dubuisson, W. A. Klieger, W. H. Helme. June 1964. [4] leaves+[2]+8+[1] p. 4° (Army project 2J024701A722; Retention standards b-12.) Φ (Price upon application).
- 21007 149. Abstracts of USAPRO research publications, fy 1964; [by] Emma E. Brown. Aug. 1964. [3]+39 p. 4° (Army project 2J024701A721, 2J024701A722, 2J024701A723.) Φ (Price upon application).

## USAPRO technical research report. (Army Personnel Research Office.)

- 21008 1138. Validation of experimental electronics selection battery [with list of references; by] Robert S. Andrews, Seymour Ringel. June 1964. [3] leaves+[4]+36[1] p. 4° (Army project 2J024701A723; Command systems C-00.)  
D 101.60/2:1138

## ARMY MEDICAL SERVICE, Defense Dept.

Washington, D.C. 20310

- 21009 Educational opportunities for dietitians, college students, dietetic interns, qualified dietitians. [1964.] cover title, 16 p. il. 4° ‡ ● Item 351-A  
D 104.2: D56
- 21010 Medical Department, Army: Blood program in World War II [with bibliographies, by Douglas B. Kendrick]; editor in chief, John Boyd Coates, jr., associate editor, Elizabeth M. McPetridge. 1964. xxxvii+922 p. il. large 8° (Office of Surgeon General.) [Prepared by Historical Unit.]  
\* Cloth, \$8.00. ● Item 352-A  
L.C. card 64-60006 D 104.11: B62

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- 21011 On rare, weak A antigens (A<sub>3</sub>, A<sub>4</sub>, A<sub>5</sub>, and A<sub>x</sub>) in man [with list of references]; by Arne Gammelgaard. 1964. viii+148 p. il. 4° (Walter Reed Army Institute of Research, Walter Reed Army Medical Center.) [Originally published in Danish by Nyt Nordisk Forlag, Arnold Busck, A/S, Copenhagen, Denmark, in 1942, translated into English by Harry Cowan of Holte, Denmark, and published with permission of original publisher and author.] \* Paper, \$1.00. ● Item 351-A  
L.C. card 64-65449 D 104.2: An 8

# ATOMIC ENERGY COMMISSION

Washington, D.C. 20545

AEC research and development reports. Y 3.At 7: 22/(letters-nos.)

- 21012 HASL-145. Environmental radiation measurements in southeastern, central and western United States, 1962-63 [with list of references and notes; by] Harold L. Beck, William J. Condon, Wayne M. Londer. Apr. 1964. v+32 p. il. 4° (Health and Safety Laboratory; [New York Operations Office], New York, N.Y.) Φ Paper, \$1.00
- 21013 PNE-501. Plowshare, industrial and scientific uses for nuclear explosives, Project Pre-Schooner, Nevada test site, Feb. 1964, preliminary report: Stam design; [prepared by John C. Wines, assisted by] Kenneth L. Saucier. Aug. 1964. cover title, v+[42] p. il. 4° (Army Engineer Waterways Experiment Station, Corps of Engineers, Vicksburg, Miss., Nuclear Cratering Group.) [Text on p. 2 of cover.] Φ Paper, 50c.
- 21014 RME-4581. Uranium in Peru [with bibliographies]; by John W. Gabelman, Raymond R. Beard. Jan. 1, 1962 [published 1964]. cover title, 162 p. il. 3 pl. in pocket, 4° (Division of Raw Materials, AEC, Washington, D.C. and Junta de Control de Energia Atomica, Lima, Peru.) Φ Paper, \$2.75. ● Item 1051-C
- 21015 TID-3912 (index). Subject index to Effects of radiation on mammalian eye, literature survey; [by H. D. Lazarus and B. H. Levedahl], indexed by Helen L. Ward, William E. Bost. July 1964. cover title, [2]+26 p. 4° (Division of Technical Information Extension.) Φ Paper, 50c.
- 21016 TID-4100 (suppl. 22). Supplement insert sheets for Engineering materials list; editor Richard E. C. Duthie, associate editor Francis L. Sachs, editorial assistant assistant, Billy D. Donald]. Aug. 1964. cover title, [111] p. 4° ([Reference Branch, Division of Technical Information Extension.]) [Issued in loose-leaf form.] † Atomic Energy Commission, Division of Technical Information Extension, P.O. Box 62, Oak Ridge, Tenn. 37831
- 21017 TID-4100 (suppl. 23). Engineering materials list, reactors, centrifuges, and instruments; [editor, Richard E. C. Duthie, associate editor, Francis L. Sachs, editorial assistant, Billy D. Donald]. [Sept. 1964.] cover title, [60] p. il. 4° ([Reference Branch, Division of Technical Information Extension.]) [Text on p. 3 of cover. Issued in loose-leaf form.] † Atomic Energy Commission, Division of Technical Information Extension, P.O. Box 62, Oak Ridge, Tenn., 37831
- 21018 UNC-5080. Development of uranium carbide as nuclear fuel, final report [with list of references]; by J. Crane, E. Gordon. Feb. 29, 1964. cover title, viii+67 p. il. 4° (New Haven Research Laboratories, United Nuclear Corporation, White Plains, N.Y.) Φ Paper, \$1.75.
- 21019 Financial report, 1964. [1964.] [3]+43 p. il. 4° (Office of Controller.) \* Paper, 40c. ● Item 1051-M  
L.C. card 58-60169 Y 3.At 7: 39/964
- 21020 International atom, remarks by Glenn T. Seaborg, chairman, Atomic Energy Commission, at Los Angeles, Calif., Oct. 27, 1964. [1964.] 16 p. 4° (S-26-64.) † Y 3.At 7: 34 Se 1/69

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# GOVERNMENT PUBLICATIONS

## BUSINESS AND DEFENSE SERVICES ADMINISTRATION,

Commerce Dept.

Washington, D.C. 20230

- 21021 United States lumber exports, 1963. Oct. 1964. 11 p. 4° \* Paper, 10c.  
 ● Item 215-U  
 L.C. card 64-65576 C 41.101:963
- 21022 United States lumber imports, 1963. Oct. 1964. 6 p. 4° \* Paper, 10c.  
 ● Item 215-U  
 L.C. card 64-65576 C 41.101/2:963

## CENSUS BUREAU, Commerce Dept.

Suitland, Md. 20233

- 21023 Announcement and order form, 1963 census of business, advance area reports, retail, wholesale, services. [Aug. 25, 1964.] [8] p. oblong 32° ([Form BC-578.]) † C 3.202/14:963
- 21024 — 1963 census of business, final area reports, retail, wholesale, services. [Aug. 27, 1964.] [8] p. oblong 32° ([Form BC-577.]) † C 3.202/14:963/2
- 21025 — census of governments, 1962, v. 4, Governmental finances, no. 3, Finances of municipalities and township governments, announcement CG-9. [1964.] [5] p. narrow 8° ([Form BC-740 (10-15-64).]) † C 3.145/3:962/9
- 1963 census of business: Retail trade [area statistics] BC63-RA (series). [Reprint from v. 2, Retail trade, area statistics.]
- 21026 31. New Hampshire. [1964.] cover title, il+32 p. il. 4° [Text on p. 2 of cover.] \* Paper, 35c. ● Item 132-A-32 C 3.202/2:963/31
- 1963 census of transportation: Truck inventory and use survey, advance and/or preliminary report.
- 21027 24. Pennsylvania. Oct. 1964. 15 p. il. 4° (Advance report TC63(A)T24.) † Paper, 20c. C 3.235/2:TC 63 (A)-T24
- 21028 Current industrial reports: Atomic energy products, 1963. Oct. 28, 1964. 5 p. 4° (Series M38Q(63)-1.) † Paper, 25c. C 3.158:M 38 Q (63)-1
- 21029 — Change sheet, Farm machines and equipment, 1963. Oct. 28, 1964. 1 p. 4° (Series M35A(63)-5.) † C 3.158:M 35 A (63)-5/ch.2
- 21030 — Converted flexible packaging products, summary for 1963. Oct. 27, 1964. 4 p. 4° (Series M26F(63)-13.) † Paper, 10c. C 3.158:M 26 F (63)-13
- 21031 — Cotton broadwoven goods, summary for 1963. Oct. 26, 1964. 9 p. 4° (Series M22T.1(63)-5.) † Paper, 25c. C 3.158:M 22 T.1 (63)-5
- 21032 — Nonwoven fabrics (bonded fiber fabrics and conventional felts), 1963. Oct. 27, 1964. 3 p. 4° (Series M22T.5(63)-1.) † Paper, 25c. C 3.158:M 22 T.5 (63)-1
- 21033 — Pharmaceutical preparations, except biologicals, 1963. Oct. 28, 1964. 9 p. 4° (Series M28G(63)-1.) † Paper, 25c. C 3.158:M 28 G (63)-1
- 21034 — Pulp, paper, and board, 1963. Oct. 22, 1964. [2]+15 p. 4° (Series M26A(63)-12.) † Paper, 15c. C 3.158:M 26 A (63)-12
- Current population reports: Series P-25, Population estimates. \* Paper, \$4.00 (including Series P-20, P-23, P-25, P-27, P-28 summaries, P-60 and P-65 for one year), \$1.25 additional for foreign mailing; single copy, each 15c. ● Item 142-C
- 21035 294. Estimates of population of States, by age, July 1, 1963, with provisional estimates for July 1, 1964. Nov. 5, 1964. 10 p. 4° C 3.186:P-25/294

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## DECEMBER 1964

### State finances 1964, G-SF64 (series).

- 21036 3. State tax collections in 1964. Oct. 1964. 38 p. il. 4° † Paper, 50c.  
C 3.141: 964/3
- 21037 [U.S. censuses of population and housing, 1960]: 1/1,000 [and] 1/10,000  
sample, description and technical documentation, supp. 1. Oct. 1964.  
10 p. 4° † C 3.223: P 81/supp.1

### CHILDREN'S BUREAU, Health, Education, and Welfare Dept. Washington, D.C. 20201

- 21038 Annual report of Interdepartmental Committee on Children and Youth,  
July 1, 1963-June 30, 1964 [with list of references]. 1964. [5]+85 p. 4°  
[Text on p. 2 of cover. Title on cover is: 16th year of work, Interde-  
partmental Committee on Children and Youth.] † ● Item 1067-B  
L.C. card 50-61609 Y 3.In 8/6: 1/964

#### Folders. ● Item 451

FS 14.118: (nos.)

- 21039 52. Child with speech problem. [1964.] [2]+24+[2] p. il. 16° \* Paper, 15c.  
21040 53. What is good day care? [1964.] cover title, 11 p. narrow 8° \* Paper, 15c.  
21041 54. Your preschool child's eyes. [1964.] [2]+15+[1] p. il. 16° \* Paper, 15c.

#### Publications.

- 21042 358. Insert for five decades of action for children [history of Children's Bureau],  
new programs for children in fiscal year 1964. [1964.] 8 p. 12° †  
FS 3.209: 358/2/Insert-3
- 21043 411. Day care for your child in family home. [1964.] cover title, [1]+14 p. 12°  
\* Paper, 15c. ● Item 453 FS 14.111: 411
- 21044 Publications of Children's Bureau [list]. [Oct. 1964.] cover title, 33  
p. il. narrow 12° † ● Item 450  
L.C. card HEW 61-4 FS 14.112: P 96/964-2

#### Statistical series. †

- 21045 76. Trends in infant and childhood mortality, 1961 [with list of references; by]  
Eleanor P. Hunt, Stanley M. Goldstein. 1964. [5]+72 p. il. 4° ● Item  
454  
L.C. card HEW 64-136 FS 14.113: 76

### CIVIL DEFENSE OFFICE, (Army), Defense Dept. Washington, D.C. 20310

- 21046 Department of Defense fallout shelter program. June 1964. cover title,  
24 p. il. oblong 12° [Supersedes Nov. 1963 issue.] † ● Item 857-D-2  
D 13.2: F 19/3/964
- 21047 Hurricane Dora, 1964. [1964.] [67] p. il. 4° † ● Item 857-D-2  
L.C. card 64-65494 D 13.2: H 94/2

#### Technical report TR-(series). ● Item 320-B-2

- 21048 20. Shelter design and analysis: v. 2, Equivalent building method of fallout  
radiation shielding analysis and design [with list of references]. Oct. 1964.  
vii+55 p. il. 4° [Supersedes Shelter design and analysis, v. 2, dated Sept.  
1963, and change 1, dated Apr. 15, 1964, which may be used.] †  
D 13.12: 20/2/v.2

### CIVIL RIGHTS COMMISSION Washington, D.C. 20425

- 21049 Public education, 1964 staff report; [by Ruby G. Martin and others]. Oct.  
1964. ix+304 p. † ● Item 288-A  
L.C. card 64-65499 CR 1.2: Ed 8/2/964

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GOVERNMENT PUBLICATIONS

CIVIL SERVICE COMMISSION

Washington, D.C. 20415

- 21050 Amendment to announcement 125B, public health advisor (GS-7 to GS-15), public health analyst (GS-9 to GS-15). Nov. 10, 1964. 1 p. oblong 48° [Amends issue 162 of AN 2279.] † CS 1.26: 957/125B/amdt.
- 21051 Amendment to announcement 335-B, navigational scientist GS-5 through GS-15. Nov. 10, 1964. 1 p. oblong 48° † CS 1.26: 964/335-B/amdt.
- 21052 Announcing examination for accountant and auditor, \$5,000 and \$6,050 a year (grades GS-5 and GS-7), announcement 188 (revised). Mar. 17, 1959, revised Oct. 1964. [1964.] 8 p. 4° [No closing date.] † ● Item 292 CS 1.26: 959/188/rev.-5
- 21053 Announcing examination for librarian, \$5,000-\$16,460 a year (grades GS-5 through GS-15), apply to Civil Service Commission, Washington, D.C., 20415; announcement 277. Apr. 17, 1962, revised Sept. 1964. [1964.] 6 p. 4° [No closing date.] † ● Item 292 CS 1.26: 962/277/rev.-2
- 21054 Announcing examination for postmaster, AN 3303. Sept. 1964. 4 p. il. † ● Item 292 CS 1.28: 3303/7
- 21055 Basic salary rates for biologists, microbiologists, and physiologists, announcement 204-B, amdt. 4. Aug. 1964. 1 p. 4° (Board of U.S. Civil Service Examiners, National Institutes of Health.) † CS 1.26: 959/204-B/amdt.4
- 21056 Discontinuance notice to announcement 180 B, design patent examiner (grades GS-5 and GS-7). Nov. 10, 1964. 1 p. oblong 48° [Amends issue 162 of AN 2279.] CS 1.26: 959/180 B/notice
- 21057 Discontinuance notice to announcement 276-B, financial analyst, \$7,220 to \$14,170 a year (grades GS-9-GS-14). Oct. 20, 1964. 1 p. oblong 48° [Amends issue 161 of AN 2279.] † CS 1.26: 962/276-B/notice
- 21058 Instructions to applicants for rural carrier examinations, AN 1977, Sept. 1964. [1964.] [1]+9 p. † ● Item 292 CS 1.28: 1977/9
- 21059 New salary rates for pharmacologists, amendment 6 to announcement no. 202-B. Aug. 1964. 1 p. oblong 24° † Board of Civil Service Examiners, National Institutes of Health, Bethesda, Md., 20014. CS 1.26: 959/202 B/amdt.6
- 21060 Opportunities for career professional positions in hydrology, entrance salaries, GS-5, \$5,990 [to] GS-15, \$16,460, apply to Executive Secretary, Board of U.S. Civil Service Examiners, Geological Survey, Department of Interior, Washington, D.C., 20242, announcement 343-B. Oct. 1964. 15 p. il. 4° [No written test required. No closing date. Title on cover reads Careers in hydrology for scientists and engineers.] † CS 1.26: 964/343-B
- Pamphlet.
- 21061 35. Federal careers for women; Aug. 1964. [1964.] 12 p. il. narrow 8° \* Paper, 10c. ● Item 299 CS 1.48: 35/6
- 21062 Supplement to announcement of examinations for medical technologists, announcement 310B, Aug. 27, 1963, supp. 3. Aug. 1964. 1 p. (Board of Civil Service Examiners, National Institutes of Health.) † CS 1.26: 963/310 B/supp.3
- 21063 Urban planners needed in Federal service, \$7,220 to \$16,460 a year (grades GS-9 through GS-15), apply to Board of Civil Service Examiners, Housing and Home Finance Agency, Washington, D.C., 20410, announcement no. 258B. May 16, 1961, revised Sept. 1964. [1964.] 6 p. 4° [No closing date.] † ● Item 292 CS 1.26: 961/258 B/rev.-2

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NOTE.—Requests to the Commerce Department for publications should include the Comm-DC-number if given in the entry.

- 21064 Banking and community development, text of address by Andrew F. Brimmer, Deputy Assistant Secretary of Commerce, for delivery at dedication of Gateway National Bank, St. Louis, Mo., Oct. 18, 1964. [1964.] 5 p. 4°  
† C 1.18: B 77/6
- 21065 Impact of new technology on people, remarks of William W. Eaton, Deputy Assistant Secretary of Commerce for Science and Technology, prepared for delivery before 8th annual meeting of Human Factors Society, Washington, D.C., Oct. 20, 1964. [1964.] 6 p. 4° † C 1.18: Ea 8/5
- Overseas business reports OBR (series). [Issued irregularly.] \* Paper, \$18.00 a yr., \$12.00 additional for foreign mailing; single copy, 15c. (1-3 yr. subs.). ● Item 231-B C 1.50: (nos.)
- 21066 64-85. Market information on electronic products in Australia; prepared by Richard W. Heimlich. Sept. 1964. 5 p. 4° (Business and Defense Services Administration.)
- 21067 64-87. Market information on electronic products in Spain; prepared by Richard W. Heimlich. Sept. 1964. 5 p. 4° (Business and Defense Services Administration.)
- 21068 64-93. Market information on electronic products in Sweden; prepared by Richard W. Heimlich. Sept. 1964. 6 p. 4° (Business and Defense Services Administration.)
- 21069 64-94. Market information on electronic products in Denmark; prepared by Richard W. Heimlich. Sept. 1964. 3 p. 4° (Business and Defense Services Administration.)
- 21070 64-95. Market information on electronic products in United Kingdom; [prepared in Office of Scientific and Technical Equipment]. Sept. 1964. 4 p. 4° (Business and Defense Services Administration.)
- 21071 64-96. Outlook for American gas appliances and equipment in Netherlands [with bibliography]; prepared by Louis E. Nordholt. Aug. 1964. 11 p. il. 4° (Business and Defense Services Administration.)
- 21072 64-97. Selling in Turkey; prepared in Near East-South Asia Division, Office of International Regional Economics. Sept. 1964. 8 p. 4° (Bureau of International Commerce.)
- 21073 64-98. Foreign trade regulations of Equatorial Customs Union (Central African Republic, Republics of Chad, Congo, Gabon) and Cameroon; prepared by Alfred F. Daibock. Sept. 1964. 11 p. 4° (Bureau of International Commerce.) [Supersedes World trade information services, pt. 2, nos. 62-13, 59-65, 57-2, and 53-96.]
- 21074 64-99. Foreign trade regulations of Peru; prepared by Bruce B. Sever. Sept. 1964. 8 p. 4° (Bureau of International Commerce.) [Supersedes OBR 63-19; World trade information service pt. 2, nos. 60-46 and 57-114.]
- 21075 64-101. What can you sell in Netherlands? prepared in European Division, Office of International Regional Economics. Sept. 1964. 9 p. 4° (Bureau of International Commerce.) [Supplements OBR 64-67.]
- 21076 64-102. United States foreign trade, Jan.-June 1964; [prepared in International Trade Analysis Division]. Oct. 1964. 24 p. il. 4° (Bureau of International Commerce.)
- 21077 64-103. United States trade with European Free Trade Association, 1959-63; [prepared in International Trade Analysis Division]. Oct. 1964. 27 p. il. 4° (Bureau of International Commerce.)
- 21078 64-104. Japanese electronic industries [with bibliography]; prepared by Richard W. Heimlich. Oct. 1964. 8 p. 4° (Business and Defense Services Administration.)
- 21079 64-105. Basic data on economy of Laos [with bibliography]; prepared by Nandor J. Cheplo. Sept. 1964. 10 p. il. 4° (Bureau of International Commerce.) [Supersedes World trade information service, pt. 1, no. 58-69.]
- 21080 64-106. Basic data on economy of Jordan [with bibliography]; prepared in Near East-South Asia Division, Office of International Regional Economics. Sept. 1964. 7 p. il. 4° (Bureau of International Commerce.) [Supersedes World trade information service, pt. 1, no. 62-71.]
- 21081 64-107. Foreign trade regulations of Iceland; prepared by Ann C. Holmes. Sept. 1964. 8 p. 4° (Bureau of International Commerce.) [Supersedes World trade information service, pt. 2, nos. 62-55 and 62-56.]
- 21082 64-108. Selling in Switzerland [with bibliography]; prepared by Jeannine Giffin and Alexander Dauman. Sept. 1964. 13 p. 4° (Bureau of International Commerce.)

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- 21083 64-109. Market information on electronic products in Mexico; prepared by Richard W. Heimlich. Oct. 1964. 4 p. 4° (Business and Defense Services Administration.)
- 21084 64-110. Basic data on economy of British Virgin Islands [with bibliography]; prepared by Lawrence J. Comella. Sept. 1964. 5 p. il. 4° (Bureau of International Commerce.)
- 21085 64-111. Basic data on economy of French Guiana [with bibliography]; prepared by Walter Haidor. Sept. 1964. 6 p. il. 4° (Bureau of International Commerce.)
- 21086 64-112. Basic data on economy of Libya [with bibliography]; prepared by Kenneth D. Whitehead. Sept. 1964. 24 p. il. 4° (Bureau of International Commerce.) [Supersedes WTIS, pt. 1, no. 61-10.]
- 21087 64-113. Outlook for United States residential heating equipment sales in Italy; prepared by Office of Construction and Materials Industries. Oct. 1964. 4 p. 4° (Business and Defense Services Administration.)
- 21088 64-114. Selling in Pakistan; prepared by Robert W. Weise, jr. Sept. 1964. 11 p. 4° (Bureau of International Commerce.)
- 21089 64-115. Foreign trade regulations of Jordan; prepared by Jackson B. Hearn. Sept. 1964. 6 p. 4° (Bureau of International Commerce.) [Supersedes WTIS, pt. 2, nos. 58-72, 59-58 & 62-7.]
- 21090 64-116. Foreign trade regulations of Ceylon; prepared by Jackson B. Hearn. Sept. 1964. 7 p. 4° (Bureau of International Commerce.) [Supersedes WTIS, pt. 2, nos. 58-81, 59-13, 61-29, 62-17.]
- 21091 64-117. Market factors in U.A.R.; prepared in Near East-South Asia Division, Office of International Regional Economics. Sept. 1964. 7 p. 4° (Bureau of International Commerce.)
- 21092 64-119. United States trade with major world areas, Jan.-June 1964; [prepared in International Trade Analysis Division]. Oct. 1964. 16 p. il. 4° (Bureau of International Commerce.)
- 21093 Policy of expansion, remarks by James G. Morton, Special Assistant to Secretary of Commerce, before Sertoma Club, Greenville, S.C., Oct. 26, 1964. [1964.] 7 p. 4° † C 1.18: M 84/7
- 21094 Profits and power through trade, keynote speech by deputy to Secretary of Commerce, Peter T. Jones, prepared for delivery at World Trade Week Conference, Southern Methodist University, Dallas, Tex., Oct. 22, 1964. [1964.] 9 p. 4° (Comm-DC-20235.) † C 1.18: J 71/23
- 21095 Prosperity for all members of family, address of Herbert W. Klotz, Assistant Secretary of Commerce for Administration, before luncheon for representatives of community groups, Lowell, Mass., Oct. 5, 1964. [1964.] 5+12 leaves, 4° † C 1.18: K 69/4
- 21096 Remarks by Roy L. Morgan, director, Office of Field Services, Department of Commerce, prepared for delivery at presentation of President Johnson's E award for export and flag raising ceremony at plant of Big Dutchman Automatic Poultry Feeding Company, Zeeland, Mich., Oct. 28, 1964. [1964.] 6 p. 4° † C 1.18: M 82/21
- 21097 Remarks by Roy L. Morgan, Director, Office of Field Services, Department of Commerce, prepared for delivery at raising of President Johnson's E pennant at ceremony at plant of Algas Industries, Los Angeles, Calif., Oct. 14, 1964. [1964.] 4 p. 4° † C 1.18: M 82/19
- 21098 Remarks by Roy L. Morgan, Director, Office of Field Services, Department of Commerce, prepared for delivery at raising of President Johnson's E pennant for export at Ford Motor Company, Rawsonville, Mich., Oct. 27, 1964. [1964.] 6 p. 4° † C 1.18: M 82/20

## COMMUNITY FACILITIES ADMINISTRATION, Housing and Home Finance Agency, Washington, D.C. 20410

- 21099 CFA 1964 design awards program. [1964.] cover title, 32 p. il. oblong 8° †  
 ● Item 586 HH 5.10: 964

## COMMUNITY RELATIONS SERVICE, Commerce Dept. Washington, D.C. 20230

NOTE.—The Community Relations Service was established in the Department of Commerce by Public law 352, 88th Congress, 2d session, approved July 2, 1964.

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- 21100 Remarks by LeRoy Collins, director, Community Relations Service, to 3d Province of General Convention of Episcopal Church, St. Louis, Mo., Oct. 19, 1964. [1964.] 7 p. 4° † C 50.9: C 69/5

**COMPTROLLER OF CURRENCY, Treasury Dept.  
Washington, D.C. 20220**

- 21101 Years of reform, prelude to progress. [1964.] cover title, 32 p. 4° [Reprinted from 101st annual report 1963, Comptroller of Currency. Illustration on cover.] \* Paper, 25c. T 12.1/a: R 25

**CONGRESS**

- 21102 Congressional record, daily digest of 88th Congress, 1st session, v. 109, pt. 21 [Jan. 9-Dec. 30, 1963]. [Permanent edition.] 1963. [1]+ D3-D676 p. 4° \* Cloth, \$2.75. ● Item 993  
L.C. card 12-36438 X.88/1: 109/pt.21

NOTE.—In the permanent bound edition, the paging differs from that of the daily numbers, the text being revised, rearranged, and printed without break. Extraneous matter appearing in the Appendix is omitted from the permanent form of the Congressional record.

**Laws**

NOTE.—The Federal laws are first published separately and in this form are known as "slip laws". Later, these laws are compiled, edited, indexed, and published in the volumes of the Statutes at large.

Private laws, 88th Congress. † House or Senate Document Rooms, Capitol.

- 21103 346. H.R. 3642, act for relief of Mike Mizokami, Sam Mizokami, Tom Mizokami, and Hatsuyo Mizokami. Approved Oct. 6, 1964. 1 p.  
21104 347. H.R. 4972, act for relief of Robert E. McKee General Contractor Inc., and Kaufman and Broad Building Company, joint venture. Approved Oct. 6, 1964. 1 p.  
21105 348. H.R. 5759, act for relief of Connecticut Beverage Company, Inc. Approved Oct. 6, 1964. 1 p.  
21106 349. H.R. 6593, act for relief of Earnest O. Scott. Approved Oct. 6, 1964. 1 p.  
21107 350. H.R. 6233, act to provide for conveyance of certain land of United States to Fascua Yaqui Association, Inc. [Approved Oct. 8, 1964.] 2 p. [Corrected print.]  
21108 351. S. 1640, act for relief of certain employees of Alaska Railroad. Approved Oct. 13, 1964. 1 p.  
21109 352. S. 1684, act for relief of Fotini Dimantopoulou. Approved Oct. 13, 1964. 1 p.  
21110 353. S. 2499, act for relief of Leobardo L. Gonzalez. Approved Oct. 13, 1964. 1 p.  
21111 354. S. 2698, act for relief of Linus Han. Approved Oct. 13, 1964. 1 p.  
21112 355. S. 2730, act for relief of Jorge A. Picaza. Approved Oct. 13, 1964. 1 p.  
21113 356. S. 2759, act for relief of Kim Sook Hee and Kim Lou. Approved Oct. 13, 1964. 1 p.  
21114 357. H.R. 1179, act for relief of Basilio King, his wife, and their children. Approved Oct. 13, 1964. 1 p.  
21115 358. H.R. 7348, act for relief of Frank B. Rowlett. Approved Oct. 13, 1964. 1 p.  
21116 359. H.R. 9976, act for relief of Elmer Levy. Approved Oct. 13, 1963. 1 p.  
21117 360. H.R. 2772, act for relief of Mr. and Mrs. Harley Brewer. Approved Oct. 14, 1964. 1 p.

Public laws, 88th Congress. ● Item 575

NOTE.—Public laws in slip form in the first prints may be obtained from the Superintendent of Documents, Washington, D.C. 20402, at a subscription price of \$12.00 per session, \$2.00 additional for foreign mailing; single copies vary in price.

- 21118 626. H.R. 2753, act to disclaim any title of United States to certain real property in Modoc County, Calif. Approved Oct. 3, 1964. 1 p. \* Paper, 5c.  
21119 627. H.R. 4989, act to amend title 28 of United States Code to transfer counties of Genesee and Shiawassee in Michigan from northern division to southern division of eastern judicial district and to authorize term of court at Ann Arbor. Approved Oct. 6, 1964. 1 p. \* Paper, 5c.  
21120 628. H.J. Res. 753, joint resolution to authorize the President to proclaim Oct. 15 of each year as White Cane Safety Day. Approved Oct. 6, 1964. 1 p. \* Paper, 5c.  
21121 629. S. 1024, act to authorize commissioners of District of Columbia government, and for other purposes. [Approved Oct. 6, 1964.] 2 p. \* Paper, 5c.  
21122 630. H.R. 12289, act to establish Lewis and Clark Trail Commission, and for other purposes. [Approved Oct. 6, 1964.] 3 p. \* Paper, 5c.

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# GOVERNMENT PUBLICATIONS

## Public laws, 88th Congress—Continued

- 21123 631. H.R. 5932, act, to amend Federal employees health benefits act of 1959 so as to authorize certain teachers employed by Board of Education of District of Columbia to participate in health benefits plan established pursuant to such act, to amend Federal employees group life insurance act of 1954 so as to extend insurance coverage to such teachers, to provide for retroactive salary increases for certain employees of Federal Government, and for other purposes. [Approved Oct. 6, 1964.] 2 p. \* Paper, 5c.
- 21124 632. H.R. 10204, act to extend Osage mineral reservation for indefinite period. Approved Oct. 6, 1964. 1 p. \* Paper, 5c.
- 21125 633. H.R. 11380, act to amend further Foreign assistance act of 1961, as amended, and for other purposes. [Approved Oct. 7, 1964.] \* Paper, 5c.
- 21126 634. H.R. 11812, act making appropriations for foreign assistance and related agencies for fiscal year 1965, and for other purposes. [Approved Oct. 7, 1964.] 8 p. \* Paper, 5c.
- 21127 635. H.R. 12633, act making supplemental appropriations for fiscal year 1965, and for other purposes. [Approved Oct. 7, 1964.] 11 p. \* Paper, 10c.
- 21128 636. H.R. 9718, act to authorize crediting of certain military service for purposes of reserve retired pay. Approved Oct. 8, 1964. 1 p. \* Paper, 5c.
- 21129 637. H.R. 12308, act to authorize removal of flight hazard at United States Naval Air Station, Norfolk, Va. Approved Oct. 8, 1964. 1 p. \* Paper, 5c.
- 21130 638. S. 2687, act to extend Agricultural trade development and assistance act of 1954, and for other purposes. [Approved Oct. 8, 1964.] 5 p. \* Paper, 5c.
- 21131 639. S. 653, act to provide adequate basis for administration of Lake Mead National Recreation Area, Ariz. and Nev., and for other purposes. [Approved Oct. 8, 1964.] 4 p. \* Paper, 5c.
- 21132 640. S. 1531, act to increase appropriation authorization for completion of construction of irrigation and power systems of Flathead Indian irrigation project, Mont. Approved Oct. 8, 1964. 1 p. \* Paper, 5c.
- 21133 641. H.R. 10473, act to extend period during which Federal payments may be made for foster care in child-care institutions under program of aid to families with dependent children under title 4 of Social Security Act, and for other purposes. Approved Oct. 13, 1964. 1 p. \* Paper, 5c.
- 21134 642. S. 2460, act to amend act of July 13, 1959, so as to extend period of time within which certain construction may be undertaken by Missouri on lands conveyed to such State by United States. Approved Oct. 13, 1964. 1 p. \* Paper, 5c.
- 21135 643. H.R. 8427, act to provide for establishment and maintenance of Central Intelligence Agency Retirement and Disability System for limited number of employees, and for other purposes. [Approved Oct. 13, 1964.] 13 p. \* Paper, 10c.
- 21136 644. H.R. 5871, act to modify retirement benefits of judges of District of Columbia Court of General Sessions, District of Columbia Court of Appeals, and Juvenile Court of District of Columbia, and for other purposes [Approved Oct. 13, 1964.] 8 p. \* Paper, 5c.
- 21137 645. H.R. 6218, act to amend act of June 29, 1960, to authorize additional extensions of time for final proof by certain entymen under desert land laws and to make such additional extensions available to successors in interest of such entymen. Approved Oct. 13, 1964. 1 p. \* Paper, 5c.
- 21138 646. S. 2649, act to designate as Graham Burke Pumping Plant pumping plant being constructed in Arkansas as part of White River backwater unit of Lower Mississippi River flood control project. Approved Oct. 13, 1964. 1 p. \* Paper, 5c.
- 21139 647. H.R. 9124, act to amend title 10, United States Code, to vitalize Reserve Officers' Training Corps programs of Army, Navy, and Air Force, and for other purposes. [Approved Oct. 13, 1964.] 12 p. \* Paper, 10c.
- 21140 648. S. 2654, act to change name of canal, known as Bay Head-Manasquan Canal and as Manasquan River-Barneget Bay Canal, to Point Pleasant Canal. Approved Oct. 13, 1964. 1 p. \* Paper, 5c.
- 21141 649. H.J. Res. 1192, joint resolution fixing time of assembly of 89th Congress. [Approved Oct. 13, 1964.] 1 p. \* Paper, 5c.
- 21142 650. H.R. 9393, act to amend title 2 of Social security act to provide full retroactivity for disability determinations, to extend period within which ministers may elect coverage, and to validate wages erroneously reported for certain engineering aids employed by soil and water conservation districts in Oklahoma, and for other purposes. [Approved Oct. 13, 1964.] 4 p. \* Paper, 5c.
- 21143 651. H.R. 2434, act to amend sec. 560 of title 38, United States Code, to permit payment of special pension to holders of Congressional Medal of Honor awarded such medal for actions not involving conflict with enemy, and for other purposes. Approved Oct. 13, 1964. 1 p. \* Paper, 5c.
- 21144 652. H.R. 12318, act to provide equitable system for classification of certain positions under House of Representatives, and for other purposes. [Approved Oct. 13, 1964.] 7 p. \* Paper, 5c.
- 21145 653. H.R. 4649, act to amend Internal Revenue Code of 1954 to authorize use of certain volatile fruit-flavor concentrates in cellar treatment of wine, and for other purposes. [Approved Oct. 13, 1964.] 2 p. \* Paper, 5c.

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# DECEMBER 1964

- 21146 654. S. 2180, act to amend title 7 of Public Health Service act so as to extend to qualified school of optometry and students of optometry those provisions thereof relating to student loan programs. Approved Oct. 13, 1964. 1 p. \* Paper, 5c.
- 21147 655. H.R. 1096, act to authorize Secretary of Interior to cooperate with Wisconsin in designation and administration of Ice Age National Scientific Reserve in Wisconsin, and for other purposes. [Approved Oct. 13, 1964.] 2 p. \* Paper, 5c.
- 21148 656. S. 3162, act to amend sec. 105(a) of Legislative branch appropriation act. 1965, with respect to disclosure in reports required thereunder of names of persons who have appeared as witnesses before committees sitting in executive session. Approved Oct. 13, 1964. 1 p. \* Paper, 5c.
- 21149 657. S. 1147, act to enable Secretary of Agriculture to construct and maintain adequate system of roads and trails for national forests, and for other purposes. [Approved Oct. 13, 1964.] 2 p. \* Paper, 5c.
- 21150 658. S. 2968, act to amend subsec. 120(f) of title 23, United States Code. Approved Oct. 13, 1964. 1 p. \* Paper, 5c.
- 21151 659. S. 446, act to regulate location of chanceries and other business offices of foreign governments in District of Columbia. [Approved Oct. 13, 1964.] 2 p. \* Paper, 5c.
- 21152 660. S. 1593, act to amend sec. 14 of Federal-aid highway act of 1954 concerning interstate planning and coordination of Great River Road. Approved Oct. 13, 1964. 1 p. \* Paper, 5c.
- 21153 661. S. 3174, act to amend sec. 5 of Employment act of 1946. Approved Oct. 13, 1964. 1 p. \* Paper, 5c.
- 21154 662. S. 3143, act to designate as Clair Eagle Lake reservoir created by Trinity Dam, Central Valley project, Calif. Approved Oct. 13, 1964. 1 p. \* Paper, 5c.
- 21155 663. S. 3035, act to provide for disposition of judgment funds now on deposit to credit of Red Lake Band of Chippewa Indians. Approved Oct. 13, 1964. 1 p. \* Paper, 5c.
- 21156 664. H.R. 1927, act to amend title 38, United States Code, to revise pension program for veterans of World War I, World War II, and Korean conflict, and their widows and children, and for other purposes. [Approved Oct. 13, 1964.] 7 p. \* Paper, 5c.
- 21157 665. S. 3060, act to amend and extend National defense education act of 1958 and to extend Public laws 815 and 874, 81st Congress (federally affected areas). [Approved Oct. 16, 1964.] 10 p. \* Paper, 10c.
- 21158 666. H.R. 12259, act to amend International claims settlement act of 1949 to provide for determination of amounts of claims of nationals of United States against Government of Cuba. [Approved Oct. 16, 1964.] 4 p. \* Paper, 5c.

## ATOMIC ENERGY JOINT COMMITTEE Washington, D.C. 20515

- 21159 Use of nuclear power for production of fresh water from salt water, hearing, 88th Congress, 2d session, Aug. 18, 1964. 1964. iii+157 p. il. \* Paper, 40c. ● Item 999  
L.C. card 64-65541 Y 4.At 7/2: W 29

## HOUSE OF REPRESENTATIVES Washington, D.C. 20515

- 21160 Civil service classification and salary laws, v. 2 [Apr. 7, 1961-Oct. 6, 1964] compiled by Gilman G. Udell, superintendent, Document Room, House of Representatives, 88th Congress. 1964. iv+148 p. \* Paper, 45c. ● Item 998  
L.C. card 46-27648 Y 1.2: Sa 3/2/964
- 21161 Civil service preference, retirement, and salary classification laws [Jan. 15, 1920-Aug. 21, 1964]; compiled by Gilman G. Udell, superintendent, Document Room, House of Representatives. 1964. ix+281 p. [Title on cover is: Laws relating to civil service retirement.] \* Paper, \$1.00.  
L.C. card 46-27648 Y 1.2: R 31/2/964

### House documents

NOTE.—All House documents, entries for which are followed by a †, may be obtained from the House Document Room or from the issuing office.

#### House documents, 88th Congress.

- 21162 172. Proceedings of 11th national convention of Veterans of World War I of United States, Inc., Detroit, Mich., Sept. 23-25, 1963; Nov. 4, 1963. 1964. vi+181 p. † (To be sent to depository libraries in Serial set binding.)  
L.C. card 64-60773

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# GOVERNMENT PUBLICATIONS

## House documents, 88th Congress—Continued

- 21163 316. Report of National Advisory Council on International Monetary and Financial Problems, special report on U.S. participation in increase in resources of fund for special operations of Inter-American Development Bank; July 2, 1964. 1964. v+54 p. \* Paper, 20c. ● Item 996 (Special offer)  
L.C. card 64-62254
- 21164 330. Report on audit of Federal Housing Administration, Housing and Home Finance Agency, fiscal years 1963 and 1962, letter from Comptroller General transmitting report; July 21, 1964. 1964. vi+43 p. ll. 4° † ● Item 996  
L.C. card 50-61317
- 21165 343. Proposed supplemental appropriations for Department of Health, Education, and Welfare and Selective Service System, fiscal year 1965. Aug. 14, 1964. 3 p. † ● Item 996 (Special offer)
- 21166 366. 8th annual report of President of United States on Trade agreements program, operation, in accordance with sec. 402(a) of Trade expansion act of 1962; Sept. 23, 1964. 1964. v+22 p. † ● Item 996  
L.C. card 57-61392
- 21167 368. 53d conference of Interparliamentary Union, report of United States delegation to 53d conference of Interparliamentary Union, held in Copenhagen, Denmark, Aug. 20-28, 1964; Sept. 28, 1964. 1964. v+35 p. † ● Item 996  
L.C. card 63-60620
- 21168 370. Refunds and credits of internal revenue taxes, letter from chairman, Joint Committee on Internal Revenue Taxation, transmitting report, fiscal year 1962; Oct. 3, 1964. 1964. ix+23 p. † ● Item 996  
L.C. card 29-26737
- 21169 371. Index to United States defense policies from World War II through 1963; prepared by [Charles H. Donnelly], Library of Congress, Legislative Reference Service; Sept. 18, 1964. 1964. iii+88 p. † [Covers H. doc. 100 and 436, 85th Cong., H. doc. 227 and 432, 86th Cong., H. doc. 207 and 502, 87th Cong., and H. doc. 155 and 335, 88th Cong.] \* Paper, 25c. ● Item 996  
L.C. card 58-61885

## House reports

NOTE.—For titles of bills which these reports accompany, see Congressional record index.

House reports on private bills, 88th Congress. † House Document Room, Capitol. ● Item 1008-B

- 21170 1656. Benjamin A. Ramelb. Report from Committee on Judiciary to accompany S. 353. Aug. 4, 1964. 9 p. ● (Special offer)
- 21171 1658. Charles Marowitz. Report from Committee on Judiciary to accompany H.R. 1219. Aug. 4, 1964. 4 p. ● (Special offer)
- 21172 1660. Robert O. Overton, Marjorie C. Overton, and Sally Eitel. Report from Committee on Judiciary to accompany H.R. 4082. Aug. 4, 1964. 5 p. ● (Special offer)
- 21173 1662. Robert L. Yates and others. Report from Committee on Judiciary to accompany H.R. 5079. Aug. 4, 1964. 6 p. ● (Special offer)
- 21174 1664. Maxie L. Stevens. Report from Committee on Judiciary to accompany H.R. 6183. Aug. 4, 1964. 7 p. ● (Special offer)
- 21175 1665. Earnest O. Scott. Report from Committee on Judiciary to accompany H.R. 6593. Aug. 4, 1964. 6 p. ● (Special offer)
- 21176 1669. Patrick J. Clyne. Report from Committee on Judiciary to accompany H.R. 8596. Aug. 4, 1964. 4 p. † ● Item 1008-B ● (Special offer)
- 21177 1673. Clarence L. Ain and others. Report from Committee on Judiciary to accompany H.R. 9406. Aug. 4, 1964. 5 p. ● (Special offer)
- 21178 1675. Daniel Walter Miles. Report from Committee on Judiciary to accompany H.R. 9847. Aug. 4, 1964. 3 p. ● (Special offer)
- 21179 1676. William L. Chatelain. Report from Committee on Judiciary to accompany H.R. 9902. Aug. 4, 1964. 6 p. ● (Special offer)
- 21180 1682. Edward G. Morhauser. Report from Committee on Judiciary to accompany H.R. 11223. Aug. 4, 1964. 4 p. ● (Special offer)
- 21181 1685. Col. Thomas O. Lawton, jr., U.S. Air Force. Report from Committee on Judiciary to accompany H.R. 11484. Aug. 4, 1964. 4 p. ● (Special offer)
- 21182 1686. Lt. Col. Claude E. Tabor, jr., U. S. Air Force. Report from Committee on Judiciary to accompany H.R. 11485. Aug. 4, 1964. 3 p. ● (Special offer)
- 21183 1688. E. F. Fort, Cora Lee Fort Corbett, and W. R. Fort. Report from Committee on Judiciary to accompany H.R. 5898. Aug. 4, 1964. 5 p. ● (Special offer)
- 21184 1690. Quality Bedding Co. Report from Committee on Judiciary to accompany H.R. 10634. Aug. 4, 1964. 5 p. ● (Special offer)
- 21185 1691. Thomas M. Talley. Report from Committee on Judiciary to accompany S. 1875. Aug. 4, 1964. ● (Special offer)

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House reports on public bills, 88th Congress. † House Document Room, Capitol. ● Item 1008-A

- 21186 1408. Transfer of land to McKinney, Tex. Report from Committee on Veterans' Affairs to accompany H.R. 10610. May 14, 1964. 3 p. ● (Special offer)
- 21187 1425. Procurement of equipment for Marine Corps tactical airfields. 19th report by Committee on Government Operations; May 25, 1964. 1964. v+65 p. ● (Special offer)  
L.C. card 64-61942
- 21188 1645. Providing technical agricultural assistance to Guam. Report from Committee on Agriculture to accompany H.R. 3869. Aug. 3, 1964. 5 p. ● (Special offer)
- 21189 1653. Printing additional copies of committee print of Committee on Government Operations entitled Catalog of Federal aids to States and local governments. Report from Committee on House Administration to accompany S. Con. Res. 87. Aug. 4, 1964. 1 p. ● (Special offer)
- 21190 1742. Importation of refuse screenings. Report from Committee on Agriculture to accompany H.R. 3607. Aug. 11, 1964. 7 p. ● (Special offer)
- 21191 1748. Processing of grain food products. Report from Committee on Agriculture to accompany H.R. 11846. Aug. 11, 1964. 3 p. ● (Special offer)
- 21192 1767, [pt. 1]. Extension and amendment of Public law 480. Report from Committee on Agriculture to accompany H.R. 12298. Aug. 11, 1964. 47 p. ● (Special offer)  
L.C. card 64-62568
- 21193 1817. Departments of State, Justice, and Commerce, the judiciary, and related agencies appropriation bill, 1965. Conference report to accompany H.R. 11134. Aug. 15, 1964. 7 p.
- 21194 1824. Wild animals, meat imports. Conference report to accompany H.R. 1839. Aug. 17, 1964. 8 p. [Corrected print.]
- 21195 1833. Protect constitutional rights of persons who are mentally ill. Report from Committee on District of Columbia to accompany S. 935. Aug. 20, 1964. 42 p. ● (Special offer)  
L.C. card 64-62567
- 21196 1924. Regulating location of chanceries in District of Columbia. Conference report to accompany S. 646. Oct. 1, 1964. 4 p.
- 21197 1925. Foreign assistance act of 1964. Conference report to accompany H.R. 11380. Oct. 1, 1964. 18 p.
- 21198 1930. Veterans pensions, NSLI. Conference report to accompany H. R. 1927. Oct. 2, 1964. 7 p.

### *Agriculture Committee, House*

Washington, D.O. 20515

[Committee hearings], serial, 88th Congress. † ● Item 1010

- 21199 ZZ. Wheat clears, hearings before Subcommittee on Wheat, 88th Congress 2d session, on H.R. 12018 and H.R. 12139, July 30 [and Sept. 15], 1964. 1964. iii+68 p.  
L.C. card 64-65423 Y 4.Ag8/1 : W56/23

### *Armed Services Committee, House*

Washington, D.O. 20515

- 21200 Cost of morale and recreation benefits for defense contractor employees, report of Subcommittee for Special Investigations, 88th Congress, 2d session, under authority of H. Res. 84, Aug. 31, 1964. 1964. v+19 p. il. (Committee print.) \* Paper, 15c.  
L.C. card 64-65524 Y 4.Ar5/2 : M 79/2
- 21201 Deterioration of runway facilities at Selfridge Air Force Base, report of Subcommittee for Special Investigations, 88th Congress, 2d session, under authority of H. Res. 84; May 27, 1964. 1964. v+16 p. (Committee print.) †  
L.C. card 64-61720 Y 4.Ar 5/2 : Se 4/3

### *Banking and Currency Committee, House*

Washington, D.O. 20515

- 21202 Alternative approach to monetary mechanism; [by Karl Brunner and Allan H. Meltzer for] Subcommittee on Domestic Finance, 88th Congress, 2d session; Aug. 17, 1964. 1964. xi+131 p. il. 6 pl. (Subcommittee print.) [Part 3 of staff analysis of Federal Reserve monetary policy making.] \* Paper, \$1.00.  
L.C. card 64-65563 Y 4.B 22/1 : M 74/17

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# GOVERNMENT PUBLICATIONS

- 21203 Federal savings bank bill, staff analysis of H.R. 12142, H.R. 12167, and S. 3050; Oct. 2, 1964. 1964. ii+29 p. (Subcommittee print.) \* Paper, 15c.  
L.C. card 64-65544 Y 4.B22/1: Sa9/4
- 21204 Twenty largest stockholders of record in member banks of Federal reserve system, Subcommittee on Domestic Finance, 88th Congress, 2d session; Oct. 15, 1964. 1964. (Subcommittee print.)  
L.C. card 64-65543 Y 4.B22/1: St 6/v. (nos.)
- v. 1. Federal reserve districts nos. 1, 2, and 3, Connecticut, Delaware, Maine, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Vermont, Virgin Islands. xxiii+1-285 p. il. 4° \* Paper, \$1.50.
- v. 2. Federal reserve districts nos. 4 and 5, District of Columbia, Kentucky, Maryland, North Carolina, Ohio, Pennsylvania, South Carolina, Virginia, West Virginia. xxiii+287-514 p. il. 4° \* Paper, \$1.25.
- v. 3. Federal reserve districts nos. 6 and 7, Alabama, Florida, Georgia, Illinois, Indiana, Iowa, Louisiana, Michigan, Mississippi, Tennessee, Wisconsin. xxiii+515-845 p. il. 4° \* Paper, \$1.75.
- v. 4. Federal reserve districts nos. 8 and 9, Arkansas, Illinois, Indiana, Kentucky, Michigan, Minnesota, Mississippi, Missouri, Montana, North Dakota, South Dakota, Tennessee, Wisconsin. xxiii+847-1041 p. il. 4° \* Paper, \$1.00.
- v. 5. Federal reserve districts nos. 10, 11, and 12, Alaska, Arizona, California, Colorado, Hawaii, Idaho, Kansas, Louisiana, Missouri, Nebraska, Nevada, New Mexico, Oklahoma, Oregon, Texas, Utah, Washington, Wyoming. xxiii+1043-1362 p. il. 4° \* Paper, \$1.75.

## Education and Labor Committee, House

Washington, D.C. 20515

- 21205 Amendments to Davis-Bacon act, hearings before General Subcommittee on Labor, 88th Congress, 2d session, on H.R. 7075, Jan. 22-Aug. 5, 1964. 1964. iii+177 p. † ● Item 1015  
L.C. card 64-65420 Y 4.Ed 8/1: D 29/964

## Interstate and Foreign Commerce Committee, House

Washington, D.C. 20515

- 21206 Airports operations and safety, hearing before Subcommittee on Transportation and Aeronautics, 88th Congress, 1st session, on H.R. 3126, H.R. 3127, H.R. 3514, Oct. 29, 1963. 1964. iii+30 p. † ● Item 1019  
L.C. card 64-65545 Y 4.In 8/4: Ai 7/31
- 21207 Operation of motor vehicles by disabled persons, hearing before subcommittee, 88th Congress, 1st session, on H.R. 827, May 14, 1963. 1963. iii+34 p. † ● Item 1019  
L.C. card 64-65427 Y 4.In 8/4: M 85/14
- 21208 Tax assessments on common carrier property, hearing before Subcommittee on Transportation and Aeronautics, 88th Congress, 2d session, on H.R. 10169, July 28, 1964. 1964. iii+57 p. † ● Item 1019  
L.C. card 64-65546 Y 4.In 8/4: T 19

## Judiciary Committee, House

Washington, D.C. 20515

[Committee hearings] serial, 88th Congress. † ● Item 1020

- 21209 13. Immigration, hearings before Subcommittee no. 1, 88th Congress, 2d session, on H.R. 7700 and 55 identical bills to amend Immigration and nationality act and H.R. 1629 [and other bills].  
L.C. card 64-62714 Y 4.J 89/1: 88/13/pt.3  
pt. 3. Aug. 5-Sept. 17, 1964. 1964. iv+603-1019 p.

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**Public Works Committee, House**

Washington, D.C. 20515

[Committee hearings, serial], 88th Congress. † ● Item 1024  
Y 4.P 96/11: 88/(nos.)

- 21210 22. Watershed development projects, 1964, hearings before Subcommittee on Watershed Development, 88th Congress, 2d session, Jan. 30–Sept. 24, 1964. 1964. iv+69 p.  
L.C. card 64-65422
- 21211 26. Miscellaneous flood control bills, 1964, hearing before Subcommittee on Flood Control, 88th Congress, 2d session, on H.R. 11388 and S. 2649, H.R. 12190, H.R. 9522, H.R. 9659 and S. 2460, H.R. 8227, H.R. 9583, H.R. 7645, Sept. 22, 1964. 1964. iii+20 p.  
L.C. card 64-65542
- 21212 27. Miscellaneous highway legislation, 1964, hearing before Subcommittee on Roads, 88th Congress, 2d session, on S. 1147 [and other bills], Sept. 30, 1964. 1964. iii+34 p.  
L.C. card 64-65547
- 21213 Section-by-section analysis of H.R. 11065 and H.R. 11066, Appalachian regional development act of 1964 as submitted in draft to Committee on Public Works; Apr. 29, 1964. 1964. ii+8 p. (Committee print 19, 88th Congress, 2d session.) ‡  
L.C. card 64-62778 Y 4.P 96/11: Ap 4

**Small Business, Select Committee on, House**

Washington, D.C. 20515

- 21214 Impact upon small business of U.S. softwood lumber standards, hearings before Subcommittee no. 4 on Distribution Problems Affecting Small Business, 88th Congress, 2d session, pursuant to H. Res. 13, Aug. 31–Sept. 2, 1964. 1964. viii+533 p. il. \* Paper, \$1.50. ● Item 1031  
L.C. card 64-65426 Y 4.Sm 1: L 97

**Veterans' Affairs Committee, House**

Washington, D.C. 20515

- 21215 Title 38, United States Code, Veterans' benefits; Oct. 27, 1964. 1964. xxvi+364+[1] p. 1 tab. (House committee print, 240, 88th Congress, 2d session.) [Contains all laws of general applicability in force, as amended through 2d session of 88th Congress, which are administered by Veterans' Administration, and includes tables which should be of assistance to those desiring information about such laws. Includes on last page, edge index with instructions for use.] \* Paper, \$1.50.  
L.C. card 60-64618 Y 4.V 64/3: B 43/6/964

SENATE

WASHINGTON, D.C. 20510

**Senate documents**

NOTE.—All Senate documents, entries for which are followed by a †, may be obtained from the Senate Document Room or from the issuing office.

Senate documents, 88th Congress.

- 21216 79. John Fitzgerald Kennedy, compilation of statements and speeches made during his service in Senate and House of Representatives, pursuant to S. Res. 294, 88th Congress, [compiled and edited by Doris Whitney], Legislative Reference Service, Library of Congress; Feb. 4, 1964. 1964. xvii+1143 p. [From Congressional record, 80th–86th Congress, 1947–60.] \* Paper, \$3.00. (To be sent to depository libraries in Serial set binding.)  
L.C. card 64-65565
- 21217 109. Summary of legislative record and digest of major accomplishments, 88th Congress, 2d session, Jan. 3–Oct. 3, 1964, together with statement and review of legislative highlights over past 4 years by Mike Mansfield, Senate Majority Leader; Oct. 3, 1964. 1964. ix+242 p. † ● Item 996  
L.C. card 48-46961

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# GOVERNMENT PUBLICATIONS

## Senate documents, 88th Congress—Continued

- 21218 110. Summaries of laws and treaties of general interest, supplement to Republican report on 88th Congress, 2d session (Senate document 108) by Everett McKinley Dirksen of Illinois, minority leader; Oct. 2, 1964. 1964. vii+48 p. † ● Item 996  
L.C. card 64-65476
- 21219 111. Implementation of Humphrey amendment to Foreign assistance act of 1961, 3d annual report to Congress (fiscal year 1964), prepared by Agency for International Development, Department of State; Sept. 25, 1964. 1964. vii+75 p. † ● Item 996  
L.C. card 62-62321

## Senate reports

NOTE.—For titles of bills which these reports accompany, see Congressional record index.

Senate reports on private bills, 88th Congress. † Senate Document Room, Capitol. ● Item 1008-B

- 21220 1140. Ligia Paulina Jimenez. Report from Committee on Judiciary to accompany H.R. 2735. June 30, 1964. 5 p. ● (Special offer)
- 21221 1336. Maj. Raymond G. Clark, jr. Report from Committee on Judiciary to accompany S. 2133. Aug. 7, 1964. 5 p. ● (Special offer)
- 21222 1337. Frank Miramor. Report from Committee on Judiciary to accompany H.R. 1451. Aug. 7, 1964. 4 p. ● (Special offer)
- 21223 1338. Estate of Eileen G. Foster. Report from Committee on Judiciary to accompany H.R. 6883. Aug. 7, 1964. 3 p. ● (Special offer)
- 21224 1342. Charles Chung Chi Lee and Julia Lee. Report from Committee on Judiciary to accompany S. 2790. Aug. 7, 1964. 5 p.
- 21225 1413. Mrs. Cesira Duddy. Report from Committee on Judiciary to accompany H.R. 6578. Aug. 13, 1964. 7 p. ● (Special offer)

Senate reports on public bills, 88th Congress. † Senate Document Room, Capitol. ● Item 1008-A

- 21226 1257. Providing for settlement of claims of certain residents of Trust Territory of Pacific Islands. Report from Committee on Interior and Insular Affairs to accompany H.R. 1988. July 29, 1964. 6 p. ● (Special offer)
- 21227 1258. Promoting economic and social development of Trust Territory of Pacific Islands. Report from Committee on Interior and Insular Affairs to accompany H.R. 3198. July 29, 1964. 17 p.
- 21228 1301. Bighorn Canyon National Recreation Area. Report from Committee on Interior and Insular Affairs to accompany S. 2048. Aug. 4, 1964. 8 p. ● (Special offer)
- 21229 1308. Limitation of diversity jurisdiction of Federal courts under direct action statutes. Report from Committee on Judiciary to accompany H.R. 1997. Aug. 4, 1964. 9 p. ● (Special offer)  
L.C. card 64-62325
- 21230 1313. Validating certain payments of per diem allowances made to members of Coast Guard. Report from Committee on Judiciary to accompany H.R. 11255. Aug. 4, 1964. 4 p. ● (Special offer)
- 21231 1340. Interstate traffic in mail order firearms [part of investigation of juvenile delinquency in United States]. Interim report of Committee on Judiciary made by its Subcommittee to Investigate Juvenile Delinquency, together with individual views, pursuant to S. Res. 274, 88th Congress, 2d session; Aug. 7, 1964. 1964. iii+30 p.  
L.C. card 64-65564
- 21232 1360. Making certain technical amendments to Horizontal property act of District of Columbia. Report from Committee on District of Columbia to accompany H.R. 11222. Aug. 8, 1964. 17 p.
- 21233 1380. Departments of State, Justice, and Commerce, the judiciary, and related agencies appropriation bill, 1965. Report from Committee on Appropriations to accompany H.R. 11134. Aug. 12, 1964. 29 p. ● (Special offer)
- 21234 1514. Reserve Officers' Training Corps vitalization act of 1964. Report from Committee on Armed Services to accompany H.R. 9124. Aug. 20, 1964. 53 p. ● (Special offer)  
L.C. card 64-62552
- 21235 1520. Foreign decorations. Report from Committee on Foreign Relations to accompany H.R. 12342. Sept. 1, 1964. 3 p.

## Aging, Special Committee on, Senate

Washington, D.C. 20510

- 21236 Increasing employment opportunities for the elderly, recommendations and comment, report; Aug. 1964. 1964. iii+5 p. (Committee print, 88th Congress, 2d session.) †  
L.C. card 64-62842

Y 4.Ag 4: Em 7/3

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- 21237 Interstate mail order land sales, hearing before Subcommittee on Frauds and Misrepresentations Affecting the Elderly, 88th Congress, 2d session.  
 ● Item 1009  
 L.C. card 64-62843 Y 4.Ag 4: L 22/pt.3  
 pt. 3. May 20, 1964. 1964. iii+233-361 p. \* Paper, 35c.

- 21238 Major Federal legislative and executive actions affecting senior citizens, 1963-64, staff report; Oct. 1964. 1964. v+21 p. (Committee print, 88th Congress, 2d session.) \* Paper, 15c. ● Item 1009  
 L.C. card 64-65438 Y 4.Ag 4: L 52

**Government Operations Committee, Senate**

Washington, D.C. 20510

- 21239 Organized crime and illicit traffic in narcotics, hearings before Permanent Subcommittee on Investigations, 88th Congress, 1st and 2d sessions, pursuant to Senate resolution 278, 88th Congress. ● Item 1037  
 L.C. card 63-25469 Y 4.G74/6: C 86/pt. 4  
 pt. 4. July 30, 1964. 1964. iii+865-1147 p. il. 1 pl. 4 maps. \* Paper, \$1.75.

**Interior and Insular Affairs Committee, Senate**

Washington, D.C. 20510

- 21240 Federal-State water rights, hearings before Subcommittee on Irrigation and Reclamation, 88th Congress, 2d session, on S. 1275, Mar. 10-13, 1964. 1964. v+361 p. † ● Item 1040  
 L.C. card 64-65424 Y 4.In8/13: W 29/14/964

**Judiciary Committee, Senate**

Washington, D.C. 20510

- 21241 Chinese and Russian Communists compete for foreign support, staff conference of Subcommittee to Investigate Administration of Internal Security Act And Other Internal Security Laws, testimony of Tung Chi-ping, Chinese defector; Aug. 20, 1964. 1964. ii+18 p. (Committee print, 88th Congress, 2d session.) \* Paper, 10c.  
 L.C. card 64-65550 Y 4.J89/2: C 44/5

**Labor and Public Welfare Committee, Senate**

Washington, D.C. 20510

- 21242 Enactments by 88th Congress concerning education and training, 1963-64, with related presidential recommendations, legislative histories of bills, and digests of enactments, prepared [by Charles A. Quattlebaum], Legislative Reference Service of Library of Congress; Oct. 1964. 1964. xi+243 p. (Committee print, 88th Congress, 2d session.) \* Paper, 60c.  
 L.C. card 64-65526 Y 4.L 11/2: Ed 8/18/963-64

**Public Works Committee, Senate**

Washington, D.C. 20510

- 21243 Western water development, summary of water resources projects, plans, and studies relating to western and midwestern United States, compiled by Special Subcommittee on Western Water Development; Oct. 1964. 1964. vi+56 p. il. 7 pl. (Committee print, 88th Congress, 2d session.) ‡  
 L.C. card 64-65548 Y 4.P96/10: W 29/4

**Small Business, Select Committee on, Senate**

Washington, D.C. 20510

- 21244 Role of small business in Government procurement, 1964, hearings before subcommittee, 88th Congress, 2d session, review of progress made in small business participation in Government procurement programs, June 2-4, 1964. 1964. v+195 p. il. 1 pl. † ● Item 1049  
 L.C. card 64-65549 Y 4.Sm1/2: P 94/8/964

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# GOVERNMENT PUBLICATIONS

## CUSTOMS BUREAU, Treasury Dept. Washington, D.C. 20226

- 21245 Merchant marine statistics 1964, compiled as of Jan. 1, 1964. 1964, vi+50 p. 4° \* Paper, 40c. ● Item 951  
L.C. card 25-26038 T 17.10: 964

### CUSTOMS COURT

- 21246 United States Customs Court reports: v. 51. Cases adjudged in Customs Court, July-Dec. 1963. [1964.] xviii+607 p. [Includes classification decisions 2405-23, abstracts 67853-68189, valuation decisions 124-127, reappraisement decisions 10545-10650, A.R.D. 159-163.] \* Cloth, \$2.75.  
● Item 736  
L.C. card 39-29067 Ju 9.5: 51

### DEFENSE DEPARTMENT

Washington, D.C. 20301

- 21247 1963 addendum to Manual for courts-martial, United States, 1951, Change 2: Aug. 31, 1964. [1964.] [3] p. [Issued in loose-leaf form. Supersedes Change 1, Nov. 26, 1953.] † ● Item 349 D 1.15: 951/add./ch. 2

Armed Forces Institute [manual]. †

- 21248 D 122.1. Writings of American authors 1, high school course, study guide to be used with USAFI course D122; prepared by Paul H. Krueger. 1964. 124 p. il. 4° ● Item 305  
L.C. card 64-65559 D 1.10: D 122.1

Cataloging manual M (series). [Issued with perforations.]

- 21249 1-4. Federal manual for supply cataloging, chap. 4. Operating procedures, Mar. 1963, Change 2; Aug. 1, 1964. [1964.] [8] p. 4° (Defense Supply Agency.) [Includes new and revised pages. Issued in loose-leaf form.] \* Paper, \$6.00 (including basic manual and supplementary service for an indefinite period); \$2.00 additional for foreign mailing. ● Item 314-A  
D 7.6/3: 1-4/3/ch. 2

Defense standardization manual M (series).

- 21250 200A. [Standardization policies, procedures, and instruction, Apr. 2, 1962], Notice 6, June 15, 1964. [11] p. 4° (Defense Supply Agency.) [Includes new and revised pages. Issued in loose-leaf form.] \* Paper, \$6.00 (including basic manual and supplementary service for an indefinite period); \$2.00 additional for foreign mailing. ● Item 314-A  
D 7.6/3: 200A/notice 6

- 21251 200A. Same: Notice 7, June 30, 1964. [14] p. 4° (Defense Supply Agency.) [Includes new and revised pages. Issued in loose-leaf form.] \* Paper, \$6.00 (including basic manual and supplementary service for an indefinite period); \$2.00 additional for foreign mailing. ● Item 314-A  
D 7.6/3: 200A/notice 7

Defense Supply Agency manual DSAM (series). ● Item 314-A

- 21252 1445.9. DSA civilian career program for transportation. July 1964. cover title, [2]+18 p. il. † D 7.6/8: 1445.9

DSA-DLSC handbooks. (Defense Supply Agency, Defense Logistics Services Center, Battle Creek, Mich.) ● Item 314-A

- 21253 4160.1. Defense utilization and marketing handbook, supp. 2. Aug. 1964. [11] p. 4° [Issued in loose-leaf form.] † D 7.6/10: 4160.1/supp.2

- 21254 4160.1. Same: supp. 3. Aug. 1964. [15] p. 4° [Issued in loose-leaf form.] † D 7.6/10: 4160.1/supp.3

Military standard. [Issued with perforations.] ● Item 314-J

- 21255 MIL-STD-1247A. Identification of pipe, hose, and tube lines for aircraft, missile, and space systems; Aug. 17, 1964. [1964.] vi+18 p. il. 4° [Some illustrations are colored. Supersedes MIL-STD-1247, Mar. 12, 1963.] † D 7.10: 1247A

- 21256 MIL-STRIP, military standard requisitioning and issue procedures [May 1, 1964], Change 3. Sept. 11, 1964. [20] p. 4° (DoD 4140.17-M; Office of Assistant Secretary of Defense (Installations and Logistics).) [Issued in loose-leaf form.] \* Paper, 15c. ● Item 314-A  
D 7.6/4: M 59/ch.3

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DISTRICT OF COLUMBIA

Washington, D.C. 20004

- 21257 Adams-Morgan, democratic action to save neighborhood, demonstration of neighborhood conservation in District of Columbia, report; prepared by Office of Urban Renewal. [1964.] [4]+viii+101+[1] p. il. oblong 8° [Prepared in cooperation with Stein and Marcou Associates and American University.] † ● Item 430  
L.C. card 64-65551 DC 1.2: Ad 1

ECONOMIC RESEARCH SERVICE, Agriculture Dept.

Washington, D.C. 20250

Agricultural economic report. ● Item 42C A 93.28: (nos.)

- 21258 61. Flexibility of operation in dairy manufacturing plants, changes, 1944-61; [by D. H. Carley and T. L. Cryer]. [1964.] [1]+44 p. 4° (Statistical Reporting Service.) \* Paper, 30c.  
L.C. card Agr 64-500
- 21259 62. Domestic tree nut industries, economic appraisal [1930-1963; by Jules V. Powell]. vi+41 p. il. 4° (Marketing Economics Division.) [Supersedes Marketing research report 139, Marketing tree nuts, trends and prospects, Oct. 1956.] \* Paper, 25c.  
L.C. card Agr 64-490

ERS (series).

- 21260 194. Recent research on marketing of sweetpotato flakes; [prepared by H. W. Kerr and O. C. Hester]. [1964.] [1]+28-32 p. 4° (Marketing Economics Division.) [Reprinted from Marketing and transportation situation, Aug. 1964.] † A 93.21: 194

ERS foreign (series).

- 21261 95. Survey of agriculture in Malaysia. [Oct. 1964.] cover title, iv+55 p. 4° (Foreign Regional Analysis Division.) [Map on inside of front cover.] † ● Item 76-G  
L.C. card Agr 64-487 A 93.21/2: 95

Foreign agricultural economic report. ● Item 42-B

- 21262 20. Agricultural situation and crop prospects in Communist China, 1964; [by Marion R. Larsen]. [Oct. 1964.] iv+10 p. 4° (Foreign Regional Analysis Division.) \* Paper, 10c.  
L.C. card Agr 64-65561 A 93.27: 20

EDUCATION OFFICE, Health, Education, and Welfare Dept.

Washington, D.C. 20201

- 21263 Chemical technology, suggested 2-year post high school curriculum [with bibliographies; prepared by Walter J. Brooking and others]. [1964.] vii+119 p. il. 4° (OE-80031: Technical education program series no. 5.) \* Paper, 70c. ● Item 460-A-80  
L.C. card HEW 64-134 FS 5.280: 80031
- 21264 Educational Materials Laboratory report, v. 6, no. 3, Early civilizations; [compiled by Lois B. Watt and Alice M. Murdock]. July 1, 1964. 8 p. 4° (OE-14031-31; International Studies and Services.) †  
L.C. card 64-65571 FS 5.214: 14031-31
- 21265 Farm business analysis, guidelines for suggested program in farm management [with list of teaching aids]. [1964.] [1]+v+19 p. 4° (OE-81010; Circular 752.) [Issued with perforations.] \* Paper, 20c. ● Item 460-A-81  
L.C. card HEW 64-133 FS 5.281: 81010
- 21266 How children learn to read [with bibliography]; by Helen K. Mackintosh and Elizabeth Guilfoile. [1952, revised 1964.] [1964.] vi+32 p. il. (OE-30004-A; Bulletin 1964, no. 27.) [Formerly Bulletin 1952, no. 7.] \* Paper, 20c. ● Item 460-A-30  
L.C. card HEW 64-132 FS 5.230: 30004-A

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- 21267 National defense institutes for advanced study for teachers for English, reading, history, geography, disadvantaged youth, and for library personnel, educational media specialists, summer 1965, academic year 1965-66, general manual for colleges and universities preparing proposals for institutes authorized in National defense education act, as amended Oct. 1964. [1964.] [1]+16 p. 4° (OE-50040.) † ● Item 460-A-50  
L.C. card HEW 64-131 FS 5.250: 50040
- 21268 Projects initiated under title 7, pt. A., National defense education act, Sept. 2, 1958-Apr. 30, 1964. [1964.] [2]+44 p. 4° (OE-34013-64.) †  
L.C. card HEW 62-87 FS 5.234: 34013-64
- 21269 Public school library statistics, 1962-63; by Richard L. Darling. Sept. 1964. [2]+20+[1] p. 4° (OE-15020-63; Bureau of Educational Research and Development, Division of Library Services, Library statistics.) †  
FS 5.215: 15020-63
- 21270 Pupil accounting for local and State school systems; compiled by John F. Putnam and George G. Tankard, jr. [1964.] xix+133 p. (OE-23035, Bulletin 39, 1964; State educational records and reports series, handbook 5.) [Text on p. 2 of cover.] \* Paper, 60c. ● Item 460-A-23  
L.C. card HEW 64-130 FS 5.223: 23035
- 21271 Residence and migration of college students, fall, 1963; by Higher Education Surveys Section, Division of Education Statistics. July 1964. 1 p. 42 tab, large 4° (OE-54033; Bureau of Educational Research and Development.) [Supplemental note, oblong 24°, issued also.] †  
● Item 460-A-54 FS 5.254: 54033
- 21272 Summary report, resident and extension enrollments in institutions of higher education, fall 1963, selected information from Survey of residence and migration of college students; by Higher Education Surveys Section, Division of Educational Statistics. July 1964. 4 p. 4° (OE-54031.) †  
FS 5.254: 54031-2
- 21273 TDP personnel and activities for talent development in departments of education in States and in outlying areas, 1964. [1964.] cover title, 40 p. narrow 12° (OE-35054.) \* Paper, 20c. ● Item 460-A-35  
FS 5.235: 35054
- 21274 Training hard-core unemployed, demonstration-research project at Virginia State College, Norfolk Division (interim report) [with bibliography; by Lyman B. Brooks and others]. [1964.] vi+[1]+101 p. il. (OE-13027; [Cooperative research monograph 13].) \* Paper, 45c.  
● Item 460-A-13  
L.C. card HEW 64-135 FS 5.213: 13027

## EMPLOYMENT SECURITY BUREAU, Labor Dept.

Washington, D.C. 20210

Area redevelopment manpower report, area description and economic characteristics, nature of unemployment problem, recent labor market developments, characteristics of area labor supply, Area Redevelopment Administration activities and outlook. [Prepared in cooperation with Department of Commerce, Area Redevelopment Administration.] †

- 21275 Altoona, Pa. Sept. 1964. [2]+9 leaves, il. 4° [Text on p. 2 of cover.]  
L 7.66/2: A 17

BES (series).

- 21276 U-141. Comparison of State unemployment insurance laws as of Jan. 1, 1964; [prepared in Branch of Library and Legislative Comparisons, Division of Legislative Policy and Analysis, Unemployment Insurance Service]. [1964.] ix+156 p. [Supersedes Comparison of State unemployment insurance laws as of Jan. 1, 1962.] \* Paper, 65c. ● Item 752  
L.C. card 38-26557 L 7.61: U-141/964

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## Cold Regions Research & Engineering Laboratory: Research report. ‡

- 21277 135. Growth, structure, and strength of sea ice [with list of references]; by A. Assur and W. F. Weeks. Oct. 1964. [2]+iv+19+[2] p. il. 4° (Army Materiel Command; [Department of Army tasks DA 88-66-02-001-02 and DA 8X99-27-001-03].) D 103.33/3:135

## Cold regions science and engineering: pt. 2, Physical science. (Cold Regions Research and Engineering Laboratory, Hanover, N.H.)

- 21278 2-C1. Sec. C, Physics and mechanics of ice: [1] Snow and ice on earth's surface [with bibliographies]; by Malcolm Mellor. July 1964. viii+163 p. il. 4° (Army Materiel Command; [Department of Army project, 88-66-02-001.] [Errata, 1 p., was issued also.] ‡ D 103.33/7:2-C1

## Manuals EM (series).

- 21279 1110-3-314. [Engineering and design Army airfield, heliport, operational and maintenance facilities, Mar. 30, 1960], Change 4; Sept. 30, 1964. [1964.] 2 p. 4° [Issued in loose-leaf form.] ‡ • Item 338-A D 103.6/3:1110-3-314/ch.4

## Transportation series. • Item 343

- 21280 4. Transportation lines on Mississippi River system and Gulf Intracoastal Waterway, 1964; prepared by Board of Engineers for Rivers and Harbors. 1964. xxiv+429 p. oblong 8° \* Paper, \$2.25. D 103.10:4/964  
L.C. card 36-26823

- 21281 Waterborne commerce of United States, calendar year 1963: pt. 4, Waterways and harbors, Pacific Coast, Alaska and Hawaii. [1964.] vii+204 p. il. 4° [Compiled under supervision of Division Engineer, Army Engineer Division, South Pacific, Corps of Engineers, San Francisco, Calif.] ‡ Paper, \$1.20, District Engineer, Army Engineer District, 100 McAllister St., San Francisco, Calif., 94102; or Lake Survey, 630 Federal Building, Detroit, Mich., 48226.  
L.C. card 55-63535 D 103.1/2:963/pt.4

## Waterways Experiment Station.

NOTE.—Unless otherwise indicated, publications of Waterways Experiment Station may be ordered from Corps of Engineers, U.S. Army, Waterways Experiment Station, Vicksburg, Miss. (price upon application).

## —Technical reports. ‡ D 103.24/2: (nos.)

- 21282 2-655. Spillway for typical low-head navigation dam, Arkansas River, Ark., hydraulic model investigation; by J. L. Grace, jr. Army-MRC Vicksburg, Miss., Sept. 1964. [2] leaves+vi+23+[26] p. il. 105 pl. 4° [Sponsored by Army Engineer District, Little Rock, Ark. Errata sheet, 1 p., was issued also.]
- 21283 3-656, rp. 1. Trafficability tests on confined organic terrain (muskeg), report 1 summer 1961 tests [with list of references]; by N. W. Radforth, E. S. Rush. Army-MRC Vicksburg, Miss., Sept. 1964. [5]+vii+37+[86] p. il. 4° [Sponsored by Army Materiel Command DA project 1-T-C-21701-A-046.] L.C. card 64-65453
- 21284 6-553. Investigation of performance of concrete and concreting materials exposed to natural weathering: v. 1, Active investigations, June 1960, supplements, corrections, and revisions distribution no. 3, Aug. 1964. Aug. 1964. [10] p.+[92] leaves, il. 4° [Issued in loose-leaf form.] L.C. card 61-64656

## EXPORT-IMPORT BANK OF WASHINGTON

Washington, D.C. 20571

- 21285 Export-Import Bank of Washington, report to Congress for 12 months ended June 30, 1964. [1964.] cover title, [2]+145 p. il. 4° \* Paper, \$1.00  
• Item 1061  
L.C. card 46-25991 Y 3.Ex 7/3:1/964

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FAA handbook. [Issued in loose-leaf form.] ● Item 431-C-4

- 21286 OA P 1770.6A. Communications control center handbook: [Sept. 23, 1964]. [1964.] cover title, [55] p. il. 4° [Cancels OA P 1770.6, Communications control center handbook, agency order OA 1770.7, Central aircraft dispatch, and agency order OA 1100.31A, Executive Communications Staff. Text on p. 2 of cover.] †  
FAA 1.8/2: OA P 1770.6A

Federal aviation regulations. [Issued in loose-leaf form.]

FAA 1.6/8: (nos.)

- 21287 pt. 39. Airworthiness directives. [1964.] cover title, [4] leaves, 4° \* Paper, 10c. ● Item 431-C-13
- 21288 pt. 71. Designation of Federal airways, controlled airspace, and reporting points, Change 1, [effective] Sept. 17, 1964. [1964.] [10] p. 4° †
- 21289 pt. 75. Establishment of jet routes, Change 2, [effective] Sept. 17, 1964. [1964.] [10] p. 4° †
- 21290 pt. 91. General operating and flight rules, Change 4; [effective] Sept. 2, July 13, Aug. 21, Sept. 17, 1964. [1964.] [30] p. 4° † ● Item 431-C-13
- 21291 pt. 127. Certification and operations of scheduled air carriers with helicopters, [effective Nov. 2, 1964]. [1964.] cover title, [1]+iv+2+23 p. 4° [Published in Federal register Aug. 15, 1964.] \* Paper, 30c. ● Item 431-C-13
- 21292 Report of Aviation Human Resources Study Board on manpower requirements of civil aviation industry, Project Long Look. Sept. 1964. xi+146 p. \* Paper, \$1.00. ● Item 431-C-8  
L.C. card 64-65419  
FAA 1.2: L 86
- 21293 Status of Federal aviation regulations [new] and civil aeronautics manuals. Oct. 15, 1964. 4 p. 4° † Federal Aviation Agency, Attn: HQ 433, Washington, D.C., 20553.  
FAA 1.18: 964-3

## FEDERAL COMMUNICATIONS COMMISSION

Washington, D.C. 20554

- 21294 Address by Commissioner Frederick W. Ford, Federal Communications Commission, before Cincinnati Bar Association, Cincinnati, Ohio, Oct. 19, 1964. [1964.] 11 p. 4° (58317.) †  
CC 1.15: F 75/10
- 21295 Address by E. William Henry, chairman, Federal Communications Commission, before International Radio & Television Society, New York City, N.Y., Oct. 2, 1964. [1964.] 12 p. 4° (57565 G.) †  
CC 1.15: H 396/7

## FEDERAL CREDIT UNIONS BUREAU, Health, Education, and Welfare Dept.

Washington, D.C. 20201

- 21296 Handbook for Federal credit unions. [Revised July 1964.] [1964.] iv +1-2a, 3-123 p. il. 4° (FCU 543.) \* Paper, 75c. ● Item 526-B  
L.C. card SS 50-1  
FS 3.306/2: F 31/964

## FEDERAL MARITIME COMMISSION

Washington, D.C. 20573

- 21297 Decisions of Federal Maritime Board, and Maritime Administration, Department of Commerce: v. 6, Apr. 1960-Aug. 1961; published by direction of Federal Maritime Commission and Maritime Administration. 1964. xii+[1]+491 p. [Back title is: Federal Maritime Board, Maritime Administration, Department of Commerce, reports: v. 6, Apr. 1960-Aug. 1961.] \* Cloth, \$2.50. ● Item 233-A  
L.C. card 42-49992  
FMC 1.10: 6

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FMC SP (series).

FMC 1.9: (nos.)

- 21298 64-12. Remarks of John Harlee, chairman, Federal Maritime Commission, before Propeller Club, San Diego, Calif., Oct. 20, 1964. [1964.] 6 p. 4° †
- 21299 64-13. Remarks of commissioner George H. Hearn, Federal Maritime Commission, before Alaska and Maritime Division of Chamber of Commerce and Port of Seattle, Seattle, Wash., Oct. 23, 1964. [1964.] 6 leaves, 4° †
- 21300 64-13. Oakland, artery of world commerce, remarks by John Harlee, chairman, Federal Maritime Commission, before luncheon meeting of Oakland Chamber of Commerce and Port of Oakland, Calif., Oct. 21, 1964. [1964.] 6 p. 4° †
- 21301 64 15. Remarks by John Harlee, chairman, Federal Maritime Commission, before Foreign Relations Association, Oct. 29, 1964, New Orleans, La. [1964.] 5 p. 4° †
- 21302 64-16. Remarks of commissioner, George H. Hearn of Federal Maritime Commission before Chamber of Commerce, Anchorage, Alaska, Oct. 26, 1964. [1964.] [4] leaves, f° †

FEDERAL POWER COMMISSION

Washington, D.C. 20426

- 21303 Federal Power Commission reports, opinions, decisions, and orders, v. 24. July 1, 1960-Dec. 31, 1960. 1964. xxxviii+1290 p. \* Cloth, \$4.25.  
● Item 438  
L.C. card 40-29138

FP 1.20: 24

- 21304 Major natural gas pipelines as of June 30, 1964; [map]. Scale 1.8 in.= 300 mi. 1964. 13 x 19 in. (Order FPC M-71.) \* Paper, 15c.

FP 1.13: G 21/2/964

National electric rate book, rate schedules for electric service in communities of 2,500 population or more, residential, commercial, and industrial services. [Issued with perforations.]

NOTE.—The complete rate book is made up of separate publications, each representing a State. They are sold on subscription basis by the Superintendent of Documents, \$8.00 a year, \$3.00 additional for foreign mailing; single copy, 25c.

- 21305 National electric rate book: Idaho. Sept. 1964. [2]+8 p. 4° [Supersedes issue of May 1963.] ● Item 437-A-10
- 21306 ———— Maine. Sept. 1964. [2]+9 p. 4° [Supersedes issue of Oct. 1963.] \* Paper, 25c. ● Item 437-A-17
- 21307 ———— Montana. Sept. 1964. [2]+5 p. 4° [Supersedes issue of Oct. 1962.] \* Paper, 25c. ● Item 437-A-24
- 21308 ———— Nevada. Sept. 1964. [2]+6 p. 4° [Supersedes issue of Oct. 1963.] ● Item 437-A-26
- 21309 ———— New Mexico. Sept. 1964. [2]+11 p. 4° [Supersedes issue of Nov. 1963.] ● Item 437-A-29

FP 1.18: Id 1/964

FP 1.18: M 28/964

FP 1.18: M 76/964

FP 1.18: N 41/964

FP 1.18: N 42 m/964

FEDERAL REGISTER OFFICE, General Services Administration,

Washington, D.C. 20408

Code of Federal regulations and Cumulative pocket supplements.

NOTE.—For the convenience of those who maintain complete sets of the Code of Federal regulations, arrangements have been made to supply the 1963 pocket supplements for use during 1964 and any completely revised volumes issued in 1964 on a subscription basis at \$100.00 a year, \$30.00 additional for foreign mailing. The revised volumes and supplements will be mailed as printed and all subscribers will receive expiration notices in ample time to renew their subscriptions, thus avoiding loss of continuity. The Superintendent of Documents will continue to make available the revised volumes and individual supplements for those who do not maintain complete sets.

- 21310 Code of Federal regulations, title 3. The President, 1959-63 compilation, containing full text of Presidential documents published in Federal register during Jan. 1, 1959-Dec. 31, 1963, with ancillaries and index. [1964.] vi+996 p. il. \* Fabrikoid, \$6.00. ● Item 572  
L.C. card 49-46198

GS 4.108/2: 959-63

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## GOVERNMENT PUBLICATIONS

### FEDERAL RESERVE SYSTEM BOARD OF GOVERNORS

Washington, D.C. 20551

- 21311 All banks in United States and other areas, principal assets and liabilities, by States, June 30, 1964. [1964.] [4] leaves oblong 8° (Federal reserve statistical release, E4.) † FR 1.28/2: 964
- 21312 Federal reserve historical chart book, 1964. [1964.] cover title, 122 p. il. oblong 8° [Contains charts that supplement monthly Federal reserve chart book.] † Paper, 60c., quantities of 10 or more in single shipment, 50c. each; 10c. additional for foreign mailing; one copy included in annual subscription to Federal reserve chart book. L.C. card 50-13379 FR 1.30/2: 964
- 21313 Federal reserve par list, Oct. 1964 (locations of banks upon which checks will be received by Federal reserve banks and branches for collection and credit). [1964.] [2]+40+[1] p. il. 4° [Supersedes Oct. 1963 issue and supplements thereto.] † FR 1.9: 964

### FEDERAL SUPPLY SERVICE, General Services Administration

Washington, D.C. 20405

- 21314 Federal specifications. ● Item 563 GS 2.8:  
NOTE.—These specifications are now so completely covered by the Index of Federal specifications, standards, and handbooks with cumulative monthly supplements, that listing in the Monthly Catalog of United States Government Publications represents unnecessary and wasteful duplication of effort. For that reason they will not longer be listed.  
Complete information on the Index of Federal specifications will be found in the Appendix to the February 1964 issue of the Monthly Catalog under Entry number 3585 and in the April 1964 issue under Entry number 6693.
- 21315 Standard forms supplement, stores stock catalog; Dec. 1964. [1964.] cover title, 24 p. 4° [Illustrations on p. 2 of cover. Issued with perforations. Prices apply to orders received in GSA regional offices on and after Dec. 1, 1964, and until further notification.] † ● Item 565-B L.C. card 59-28928 GS 2.10/4: 964

### FEDERAL TRADE COMMISSION

Washington, D.C. 20580

- 21316 Federal Trade Commission decisions, v. 60, findings, orders, and stipulations, Jan. 1-June 30, 1962; [prepared and edited by Harriette H. Esch]. 1964. xii+1-362a, 363-1920 p. il. \* Cloth, \$5.75. ● Item 534 L.C. card 20-26411 FT 1.11: 60

### FISH AND WILDLIFE SERVICE, Interior Dept.

Washington, D.C. 20240

Research report. ● Item 614

- 21317 65. Revised bibliography on cutthroat trout: [by] Oliver B. Cope. [1964.] iv+43 p. large 8° ([Bureau of Sport Fisheries and Wildlife.]) \* Paper, 35c. L.C. card 64-65485 I 49.26: 65
- Special scientific reports: Fisheries (series). † I 49.15/2: (nos.)
- 21318 456. Ecological studies of sockeye salmon and related limnological and climatological investigations, Brooks Lake, Alaska, 1957 [with list of literature cited]; by Theodore R. Merrell, jr. July 1964. iv+66 p. il. 4° (Bureau of Commercial Fisheries.)
- 21319 467. Annual fish passage report, Rock Island Dam, Columbia River, Wash., 1962; by Paul D. Zimmer and John H. Broughton. Aug. 1964. iii+26 p. il. 4° (Bureau of Commercial Fisheries.)
- 21320 476. Herring fishery of U.S. Passamaquoddy region [with list of literature cited]; by Leslie W. Scattergood and Lewis J. Lozier. Mar. 1964. [3]+21 p. il. 4° (Bureau of Commercial Fisheries, International Passamaquoddy Fisheries Board, 1956-59, Scientific report 34.)

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Mailing Address for All Agencies Listed in Washington, D.C.,  
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**FLIGHT STANDARDS SERVICE, Federal Aviation Agency**  
**Washington, D.C. 20553**

- 21321 Flight instructor practical test guide. Sept. 1964. vii+11 p. narrow 12° ([Advisory circular; AC 61-14.]) \* Paper, 10c. ● Item 431-F-3  
 FAA 5.8/2: F 64/8
- 21322 Flight test guide: Instrument pilot, airplane. Sept. 1964, revised. [1964.] vi+8 p. narrow 12° ([Advisory circular; AC 61-17.]) [Supersedes June 1961 edition.] \* Paper, 10c. ● Item 431-F-3  
 FAA 5.8/2: F 64/4/964

**FOREIGN AGRICULTURAL SERVICE, Agriculture Dept.**  
**Washington, D.C. 20250**

Foreign Agricultural Service FAS-M (series). †

- 21323 162. Prospects for cotton textile industry and cotton consumption in EEC; [by Horace G. Porter]. Oct. 1964. iv+15 p. 4°  
 L.C. card Agr 64-503 A 67.26: 162

**FOREST SERVICE, Agriculture Dept.**  
**Washington, D.C. 20250**

Forest pest leaflet. ● Item 82-A

- 21324 89. Dwarf mistletoe on true firs in California [with list of references]; by Robert F. Scharpf. Nov. 1964. 7 p. il. †  
 L.C. card Agr 64-493 A 13.52: 89
- 21325 National forest areas, June 30, 1964, summary. [Nov. 1964.] 14 p. il. †  
 ● Item 86  
 L.C. card Agr 16-330 A 13.10: 964
- Research note INT-(series). (Intermountain Forest & Range Experiment Station, Ogden, Utah.) †
- 21326 INT-24. Montana Christmas tree exports reach lowest level since survey was begun in 1942; [by] John S. Spencer, jr. 1964. 4 p. il. 4°  
 A 13.79: INT-24
- Research note NE-(series). (Northeastern Forest Experiment Station, Upper Darby, Pa.) †  
 A 13.79: NE-(nos.)
- 21327 NE-21. How to make wind-movement recorder from any spare drum-type recorder; [by] Irvin C. Reigner]. 1964. 4 p. il.
- 21328 NE-22. Collar crack of birch; [by] Alex L. Shigo]. 1964. 4 p. il.
- Resource bulletin NE-(series). (Northeastern Forest Experiment Station, Upper Darby, Pa.) †
- 21329 NE-2. Timber resources of West Virginia; [by] Roland H. Ferguson]. 1964. cover title, [2] + 123 p. il. [Abstract cards inserted. Two illustrations are colored.]  
 L.C. card 64-65573 A 13.80: NE-2
- 21330 Tree planters' notes for planters of forests and shelterbelts and for nurserymen, no. 67 [with lists of literature cited]. Sept. 1964. ii+27 p. il. 4°  
 [Issued with perforations.] † A 13.51: 67

**GENERAL ACCOUNTING OFFICE**  
**Washington, D.C. 20548**

GAO manual for guidance of Federal agencies [titles 1-9]. [Issued in loose-leaf form.] \* Paper, \$20.00 (including basic manual and supplementary service); \$5.00 additional for foreign mailing.

- 21331 title 5. Transportation, transmittal sheet 5-20; Sept. 15, 1964. [1964.] [9]  
 p. il. GA 1.6/10: 957/trans.5-20

NOTE.—Title 5 is sold separately on a subscription basis, \* Paper, \$2.25 (including supplementary service); 75c. additional for foreign mailing.

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# GOVERNMENT PUBLICATIONS

- 21332 Report to Congress of United States: Cost and pricing data not obtained for determining reasonableness of prices for weapons components procured from Aluminum Company of America, by Bendix Corporation and ACF Industries, Inc., Atomic Energy Commission; by Comptroller General of United States. Oct. 1964. cover title, [5] leaves+34 p. 4° † Paper, \$1.00.  
L.C. card 64-65407 GA 1.13: W 37/2
- 21333 — Employment opportunities in federally aided project generally restricted to individuals having funds to invest in business venture, Area Redevelopment Administration, Department of Commerce; by Comptroller General of United States. Oct. 1964. [4]+17 leaves, 4° † Paper, \$1.00.  
L.C. card 64-65414 GA 1.13: Em 7/3
- 21334 — Excessive costs incurred by leasing rather than purchasing certain telewriting equipment, Federal Supply Service, General Services Administration; by Comptroller General of United States. Oct. 1964. cover title, [4] leaves+18 p. 4° † Paper, \$1.00.  
L.C. card 64-62993 GA 1.13: T 23/5
- 21335 — Excessive costs to Government in sale and leaseback of electronic data processing system by Aerojet-General Corporation, Sacramento, Calif., Department of Defense; by Comptroller General of United States. Oct. 1964. cover title, [3] leaves+35 p. 4° † Paper, \$1.00.  
L.C. card 64-65408 GA 1.13: El 2/26
- 21336 — Excessive Federal contributions to veterans' life insurance trust funds because of inadequate administration of extra-hazard provisions of law, Veterans Administration; by Comptroller General of United States. Oct. 1964. cover title, [6] leaves+48 p. 4° † Paper, \$1.00.  
L.C. card 64-62994 GA 1.13: L 62/3
- 21337 — Improper issuance of service-disabled veterans life insurance, Veterans Administration; by Comptroller General of United States. Oct. 1964. [3]+14 leaves, 4° † Paper, \$1.00.  
L.C. card 64-65406 GA 1.13: L 62/2
- 21338 — Inadequacies in administration of right-of-way activities of Federal-aid highway program in New Jersey, Bureau of Public Roads, Department of Commerce; by Comptroller General of United States. Oct. 1964. [4]+29 leaves, 4° † Paper, \$1.00.  
L.C. card 64-62992 GA 1.13: H 53/18
- 21339 — Questionable need for stockpiling cordage fibers, Office of Emergency Planning, Executive Office of the President; by Comptroller General of United States. Oct. 1964. [4]+15 leaves, 4° † Paper, \$1.00.  
L.C. card 64-65415 GA 1.13: C 81
- 21340 — Revenues due Government illegally expended for rehabilitation and improvement of concession facilities at Mount Rainier National Park, National Park Service, Department of Interior; by Comptroller General of United States. Oct. 1964. cover title, [3] leaves+36 p. il. 4° † Paper, \$1.00.  
L.C. card 64-62995 GA 1.13: M 86
- 21341 — Uneconomical practices relating to distribution of press releases and other informational material issued by Department of Commerce; by Comptroller General of United States. Oct. 1964. [3]+12 leaves, 4° † Paper, \$1.00.  
L.C. card 64-65404 GA 1.13: P 92
- 21342 — Unnecessary costs incurred in sole-source procurement of portable radar sets, Department of Army; by Comptroller General of United States. Oct. 1964. [4]+21 leaves, 4° † Paper, \$1.00.  
L.C. card 64-65405 GA 1.13: R 11/7

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- 21343 — Unnecessary costs resulting from failure to consolidate leasing of intercity communications lines of certain civil agencies, General Services Administration; by Comptroller General of United States. Oct. 1964. [4]+17 leaves, 4° † Paper, \$1.00. L.C. card 64-62997 GA 1.13: C 73/11
- 21344 — Unwarranted allowance for material price increases to Newport News Shipbuilding and Dry Dock Company, Newport News, Va., for construction of aircraft carrier U.S.S. Enterprise, Department of Navy; by Comptroller General of United States. Oct. 1964. cover title, [3] leaves+35 p. 4° † Paper, \$1.00. L.C. card 64-62996 GA 1.13: En 8/2
- 21345 — Use of private executive aircraft rather than commercial aircraft resulted in unwarranted charges to Government cost-reimbursable-type contracts by Lockheed Missiles & Space Company, Sunnyvale, Calif., Department of Defense; by Comptroller General of United States. Oct. 1964. [5]+37 leaves, 4° † Paper, \$1.00. L.C. card 64-65402 GA 1.13: Ai 7/51
- 21346 — Weaknesses in administration of national fish hatchery program, Bureau of Sport Fisheries and Wildlife, Fish and Wildlife Service, Department of Interior; by Comptroller General of United States. Oct. 1964. cover title, [4] leaves+38 p. 4° † Paper, \$1.00. L.C. card 64-65401 GA 1.13: F 52

GEOGRAPHIC NAMES BOARD, Interior Dept.  
Washington, D.C. 20240

Gazetteer.

- 21347 82. Uganda, official standard names approved by Board on Geographic Names; prepared in Office of Geography. [1964.] [2]+iii+167 p. il. oblong 8° † Limited distribution, Office of Geography, Interior Dept. ● Item 617 L.C. card 64-65500 I 33.8: 82

GEOLOGICAL SURVEY, Interior Dept.  
Washington, D.C. 20405

Bulletins. ● Item 620 I 19.3: (nos.)

- 21348 1063-J. Geology of Edgemont quadrangle, Fall River County, S. Dak. [with list of references]; by J. Donald Ryan. 1964. iv+379-426 p. il. 1 pl. in pocket. [Prepared on behalf of Atomic Energy Commission. Geology and uranium deposits of southern Black Hills. Plate is colored.] \* Paper, \$1.00.
- 21349 1135-C. Oxidized zinc deposits of United States: pt. 3, Colorado [with list of selected references]; by Allen V. Heyl. 1964. vi+98+[3] p. il. 6 pl. in pocket. [Geology of known deposits and resources of oxidized zinc ores in Colorado.] \* Paper, \$1.75.
- 21350 1144.-F. Distribution of thorium and uranium in 3 early Paleozoic Plutonic series of New Hampshire [with list of literature cited]; by John B. Lyons. 1964. iv+43+[3] p. il. [Prepared partly on behalf of Atomic Energy Commission. Contributions to geochemistry. Includes title page and contents to Bulletin 1144.] \* Paper, 25c.
- 21351 1176. Geochemistry of rocks and related soils and vegetation in Yellow Cat area, Grand County, Utah [with selected bibliography]; by Helen L. Cannon. 1964. vi+128+[1] p. il. 3 pl. in pocket. [Prepared on behalf of Atomic Energy Commission.] \* Paper, \$1.50. L.C. card GS 64-378

Professional papers. ● Item 624 I 19.16: (nos.)

- 21352 316-H. Geologic interpretation of magnetic and gravity data in Copper River Basin, Alaska [with list of references cited]; by Gordon E. Andreasen [and others]. 1964. iii+135-153+[3] p. il., 2 pl. in pocket, 4° [Geophysical field investigations. Includes title page and contents to Professional paper 316. Plates are colored.] \* Paper, \$1.25.
- 21353 399-C. Eocene algae from Ishigaki-shima Ryūkyū-rettō [with selected bibliography]; by J. Harlan Johnson. 1964. iii+13+[2] p. il. 7 pl. 4° [Descriptions of 6 new species from exceptionally well preserved specimens of Eocene limestone. Geology and paleontology of Ishigaki-shima, Ryukyu-retto.] \* Paper, 35c.

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# GOVERNMENT PUBLICATIONS

## Professional papers—Continued

- 21354 404. Stratigraphy and structure of northern and western flanks of Black Hills uplift, Wyo., Mont., and S.D. [with list of references cited]; by Charles S. Robinson, William J. Mapel, and Maximilian H. Bergendahl. 1964. iv+134+[1] p. il. 5 pl. in pocket, 4°. [Prepared partly on behalf of Atomic Energy Commission. One plate is colored and issued in 2 sheets.] \* Paper, \$2.50.  
L.C. card GS 64-377
- 21355 417-C. Hydrology and hydrogeology of Navajo Lake, Kane County, Utah [with list of references cited]; by M. T. Wilson and H. E. Thomas. 1964. iii+26+[1] p. il. 3 pl. in pocket, 4°. [Prepared in cooperation with Utah Water and Power Board and with Cedar City Corporation. Contributions to stream-basin hydrology. One plate is colored.] \* Paper, \$1.00.
- 21356 483-F. Unusual Lower Cambrian trilobite fauna from Nevada [with list of references]; by Allison R. Palmer. 1964. iii+13+[2] p. il. 3 pl. 4°. [Twelve species representing Olenellidae, Oryctocephallidae, Orygopsiidae, Doryptidae, Zaanthoididae, and Ptychopariidae are described and figured. Contributions to paleontology.] \* Paper, 30c.

## Water-supply papers. • Item 625

I 19.13:(nos.)

- 21357 1369-E. Stream gaging control structure for Rio Grande conveyance channel near Bernardo, N. Mex. [with list of literature cited]; by D. D. Harris and E. V. Richardson. 1964. iv+123-154 p. il. [Design of control structure. Includes title page and contents to Water supply paper 1369. River hydraulics.] \* Paper, 20c.
- 21358 1608-F. Cenomanian-Turonian aquifer of central Israel, its development and possible use as storage reservoir [with list of references cited]; by Robert Schneider. 1964. iii+20+[1] p. il. 3 pl. in pocket. [Prepared in cooperation with Water Planning for Israel, Ltd. (TAHAL), under auspices of Agency for International Development. Contributions to hydrology of Asia and Oceania]. \* Paper, 50c.
- 21359 1671. Magnitude and frequency of floods in United States: pt. 1-A, North Atlantic slope basins, Maine to Connecticut [with list of selected references]; by A. Rice Green. 1964. x+260 p. il. 1 pl. in pocket. \* Paper, \$1.50.  
L.C. card GS 64-192
- 21360 1779-W. Geology and ground-water resources of Richardson County, Nebr. [with list of selected references]; by Philip A. Emery. 1964. iv+30 p. il. 3 pl. in pocket. [Prepared in cooperation with Conservation and Survey Division of University of Nebraska. Contributions to hydrology of United States.] \* Paper, 65c.
- 21361 1779-Y. Brief geologic and hydrologic reconnaissance of Furnace Creek Wash area, Death Valley National Monument, Calif. [with list of references cited]; by M. A. Pistrang and Fred Kunkel. 1964. iii+36 p. il. 1 pl. in pocket. [Prepared in cooperation with National Park Service, Department of Interior. Contributions to hydrology of United States.] \* Paper, 70c.
- 21362 1779-BB. Ground-water resources of Mirage Flats, Nebr. [with list of references]; by C. F. Keech. 1964. iii+36+[1]+iv p. il. [Prepared as part of program of Department of Interior for development of Missouri River basin. Contributions to hydrology of United States.] \* Paper, 55c.
- 21363 1781. Ground-water levels in United States, 1957-61: North-Central States [with lists of references]. 1964. v+148 p. il. [Prepared in cooperation with Iowa, Kansas, Minnesota, Nebraska, North Dakota, South Dakota, and Wisconsin, and with other agencies.] \* Paper, 60c.  
L.C. card GS 60-161
- 21364 1798A. Fluvial sediment in Kiowa Creek basin, Colo. [with list of literature cited]; by James C. Mundorff. 1964. v+70+[1] p. il. 1 pl. in pocket. [Prepared in cooperation with Department of Agriculture, Soil Conservation Service. Sedimentation in small drainage basins.] \* Paper, 60c.

## HEALTH, EDUCATION, AND WELFARE DEPARTMENT

Washington, D.C. 20201

- 21365 Aids to students, guide to financial and other assistance for students through programs of Department of Health, Education, and Welfare. [1964.] cover title, [3]+27 p. 12° [Text on p. 3-4 of cover.] †  
FS 1.6/3: St 9
- 21366 Illegitimacy and dependency [with list of selected references; by Helen E. Martz.] [1964.] [2]+xv-xxx p. 4° [Reprint from Health, education, and welfare indicators, Sept. 1963.] †  
FS 1.20/a: Il 6

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HOUSING AND HOME FINANCE AGENCY

Washington, D.C. 20410

- 21367 Equal opportunity in housing, series of case studies; [prepared by Harold A. Lett and others]. June 1964. cover title, 89 p. il. (Office of Program Policy and Intergroup Relations Service.) \* Paper, 35c. ● Item 582  
L.C. card 64-65498 HH 1.2: Eq 2

IMMIGRATION AND NATURALIZATION SERVICE, Justice Dept.

Washington, D.C. 20536

- 21368 Supplemental index 3, to v. 9 of Administrative decisions under immigration and nationality laws of United States [for Interim decisions nos. 1230-1378]. [Oct. 1, 1964.] [1]+7 p. \* Paper, 10c.  
L.C. card 47-46558 J 21.11/3: 9/ind.3

INTERIOR DEPARTMENT

Washington, D.C. 20240

- 21369 Desalination, catalyst of international cooperation, remarks of C. F. MacGowan, director, Office of Saline Water, before 7th annual Conference on Science and Technology in Israel and Middle East, New York City, Oct. 31, 1964. [1964.] 8 leaves, 4° † I 1.68: M 17/6
- 21370 Natural resources of Nevada, silver State. [1964.] [2]+64+[2] p. il. 4° (Office of Information.) \* Paper, 45c. ● Item 603-C I 1.91: N 41

INTERNAL REVENUE SERVICE, Treasury Dept.

Washington, D.C. 20224

- 21371 Depreciation guidelines and rules [revenue procedure 62-21]. Revised Aug. 1964. [1964.] iv+92 p. (Publication 456.) \* Paper, 30c.  
● Item 956-A  
L.C. card 64-65456 T 22.19/2: D 44/964

INTERNATIONAL COMMERCE BUREAU, Commerce Dept.

Washington, D.C. 20230

- 21372 Our multi-billion dollar export trade, address by E. E. Schnellbacher, Assistant Director, Bureau of International Commerce, Department of Commerce, prepared for delivery at World Trade Club meeting of Cincinnati Chamber of Commerce, Cincinnati, Ohio, Oct. 28, 1964. [1964.] 10 p. 4° † C 42.18: Sch 5/8
- 21373 [This entry number not used.]

INTERNATIONAL DEVELOPMENT AGENCY, State Dept.

Washington, D.C. 20520

- 21374 Community development abstracts; [prepared by Sociological Abstracts Inc.]. [1964.] cover title, [iv]+[1]+282 p. 4° (Rural and Community Development Service, Office of Technical Cooperation and Research.)  
L.C. card 64-65510 S 18.2: C 73/2
- 21375 Errata, Voluntary foreign aid programs, report for period Jan. 1-Dec. 31, 1963. Oct. 1, 1964. 1 p. oblong 8° (W-409; Voluntary Foreign Aid Service, Office of Material Resources; Statistics and Reports Division.)  
† S 18.19: 963-3/errata

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# GOVERNMENT PUBLICATIONS

## INTERNATIONAL LABOR AFFAIRS BUREAU, Labor Dept. Washington, D.C. 20210

- 21376 Directory of labor organizations: Western Hemisphere: [prepared by Barbara M. Murray]. Revised edition. May 1964. [Prepared in co-operation with Bureau of Labor Statistics. Issued in loose-leaf form.] \* Stiff board, \$7.00 per set (2 vols.). • Item 762-A  
L.C. card L 57-29 L 29.9: W 52h/964/v.1,2  
v. 1. [Antigua-Grenada.] xxxv + [464] p. 4° [Edge index, and how to use, on last page.]  
v. 2. [Guatemala-Venezuela.] [523] p. 4° [Edge index, and how to use, on last page.]

## INTERSTATE COMMERCE COMMISSION Washington, D.C. 20423

- 21377 Motor carrier accident investigation, ex parte no. MC-66, American Cyanamid Company, accident on June 26, 1964, Marshalls Creek, Pa.; [decided Oct. 26, 1964.] [1964.] [4] + 16 p. il. 4° † IC 1 mot.18: M 35  
Motor carrier accident investigation report. (Bureau of Motor Carriers, Section of Motor Carrier Safety.) †  
21378 88, A-C Trucking Co., Inc., accident of Feb. 20, 1964 at Fenns Grove, N.J. [1964.] [1] + 13 p. il. 4° IC 1 mot.18: 88  
Railroad accident investigation report. †  
21379 400S. Pennsylvania Railroad Company, Hartford City, Ind., Mar. 1, 1964. [1964.] [4] + 7 p. il. 2 pl. 4° IC 1 acci.5: 400S

## JOINT PUBLICATIONS RESEARCH SERVICE Washington, D.C. 20443

### JPRS (series).

Y 3.J 66: 13/(nos.)

- 21380 26893. Summary of Czechoslovak provincial press, no. 277 (July 18-31, 1964). Oct. 14, 1964. [2] + a-b + 13 p. 4° Φ Paper, \$1.00 (TT: 64-51150). L.C. card 59-60695  
21381 26894. Translations on economic organization and management in Eastern Europe, no. 387. Oct. 14, 1964. [2] + a + 40 p. 4° [From Probleme economice. Aug. 1964.] Φ Paper, \$2.00 (TT: 64-51151).  
21382 26895. Translations on Africa, no. 114. Oct. 14, 1964. [2] + a + 67 p. 4° Φ Paper, \$3.00 (TT: 64-51152).  
21383 26896. Translations from Hung-ch'i (Red flag), no. 16, 1964, Communist China. Oct. 14, 1964. [2] + a + 66 p. 4° Φ Paper, \$3.00 (TT: 64-51153).  
21384 26897. Index of Le Monde, no. 53 (Sept. 1-30, 1964). Oct. 14, 1964. [2] + 36 p. 4° Φ Paper, \$2.00 (TT: 64-51154). L.C. card 58-60878  
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- 21620 27133. Translations from Kommunist, no. 14, Sept. 1964, USSR. Oct. 28, 1964. [2]+a+56 p. 4°  $\Phi$  Paper, \$3.00 (TT: 64-51389).
- 21621 27134. Translations of Pravda editorial, USSR, no. 338 (Oct. 26, 1964). Oct. 28, 1964. [2]+p+4 leaves, 4°  $\Phi$  Paper, \$1.00 (TT: 64-51390).
- 21622 27135. USSR industrial development: Soviet regional economy, no. 132. Oct. 28, 1964. [2]+a+16 p. 4°  $\Phi$  Paper, \$1.00 (TT: 64-51391).
- 21623 27136. USSR industrial development: General information on Soviet machinery industries, no. 34. Oct. 29, 1964. [2]+a+17 p. 4°  $\Phi$  Paper, \$1.00 (TT: 64-51392).

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- 21624 27137. Translations on Soviet agriculture, no. 42. Oct. 29, 1964. [2]+a+32 p. 4° Φ Paper, \$2.00 (TT: 64-51393).
- 21625 27138. Translations on East European service industries, no. 313 (construction industry during 1961-63): [by Otto Kerekes]. Oct. 29, 1964. [2]+38 p. 4° [From Statistickai szemle, Aug.-Sept. 1964.] Φ Paper, \$2.00 (TT: 64-51394).
- 21626 27139. Translations on economic organization and management in Eastern Europe, no. 395 (Development of income distribution). Oct. 29, 1964. [2]+30 p. ll. 4° [From Statistickai szemle, Aug.-Sept. 1964.] Φ Paper, \$2.00 (TT: 64-51395).
- 21627 27140. Translations on East European agriculture, forestry, and food industries, no. 311 (Distortions of Agricultural indicators computed by use of units of standard plowland). Oct. 29, 1964. [2]+18 p. 4° Φ Paper, \$1.00 (TT: 64-51396).
- 21628 27141. USSR industrial development: Soviet chemical industry, no. 187. Oct. 29, 1964. [2]+a+9 p. 4° Φ Paper, \$1.00 (TT: 64-51397).
- 21629 27142. Political translations on Eastern Europe, no. 141. Oct. 29, 1964. [2]+a+31 p. 4° [From Sbirka zakonu Ceskoslovenske Socialistice Republiky, pt. 54, June 29, 1964.] Φ Paper, \$2.00 (TT: 64-51398).
- 21630 27143. Translations from Hung-ch'i (Red flag), no. 17-18, 1964, Communist China [with lists of references]. Oct. 29, 1964. [2]+a+86 p. 4° Φ Paper, \$3.00 (TT: 64-51399).
- 21631 27144. Problems of radiation microbiology in sanitary protection of reservoirs, USSR [excerpts; by V. M. Zhogoval]. Oct. 29, 1964. [2]+a+48 p. ll. 4° Φ Paper, \$2.00 (TT: 64-51400).
- 21632 27145. Translations of pravda editorials, USSR, no. 339 (Oct. 27, 1964). Oct. 29, 1964. [2] p.+5 leaves, 4° Φ Paper, \$1.00 (TT: 64-51401).
- 21633 27146. Chemical bases of virulence and pathogenicity of microorganisms, USSR [with bibliography]; by Ye. M. Gubarev. Oct. 29, 1964. [2]+18 p. 4° [From Uspekhi sovremennoy biologii, July-Aug. 1964.] Φ Paper, \$1.00 (TT: 64-51402).
- 21634 27147. Translations on Africa, no. 122. Oct. 29, 1964. [2]+a+21 p. 4° [From L'Etoile du Congo, Oct. 11, 1964.] Φ Paper, \$1.00 (TT: 64-51403).
- 21635 27148. Translations on international Communist developments, no. 662. Oct. 29, 1964. [2]+a-b+96 p. 4° Φ Paper, \$3.00 (TT: 64-51404).
- 21636 27149. USSR international economic relations, no. 21 (Structural shifts in economies of CEMA members). Oct. 29, 1964. [2]+19 p. 4° [From Voprosy ekonomiki, Aug. 1961.] Φ Paper, \$1.00 (TT: 64-51405).
- 21637 27150. USSR industrial development: Soviet ferrous metallurgy, no. 216 [articles]. Oct. 29, 1964. [2]+a+33 p. 4° Φ Paper, \$2.00 (TT: 64-51406).
- 21638 27151. Translations on East European materials industries, no. 195. Oct. 29, 1964. [2]+a+41 p. ll. 4° Φ Paper, \$2.00 (TT: 64-51407).
- 21639 27152. Summary of Polish provincial press, no. 364 (Oct. 13-19, 1964). Oct. 30, 1964. [2]+a-b+41 p. 4° [Includes list of newspaper sources.] Φ Paper, \$2.00 (TT: 64-51408).  
L.C. card 58-60883
- 21640 27153. Translations on Cuba, no. 197. Oct. 30, 1964. [2]+a-b+32 p. 4° Φ Paper, \$2.00 (TT: 64-51409).
- 21641 27154. Translations on East European service industries, no. 314. Oct. 30, 1964. [2]+a+26 p. 4° [Errata, dated Nov. 10, 1964, transmitting corrected pages 10-13, issued also.] Φ Paper, \$2.00 (TT: 64-51410).
- 21642 27155. USSR scientific abstracts: Physics and mathematics, no. 18. Oct. 30, 1964. [2] p.+a-b+120 leaves, 4° Φ Paper, \$4.00 (TT: 64-51411).
- 21643 27156. USSR industrial development: Soviet tractors and agricultural machinery, no. 147. Oct. 30, 1964. [2]+a+20 p. 4° Φ Paper, \$1.00 (TT: 64-51412).
- 21644 27157. Translations on Africa, no. 123. Oct. 30, 1964. [2]+a+27 p. 4° Φ Paper, \$2.00 (TT: 64-51413).
- 21645 27158. Press information report on Albania, no. 111. Oct. 30, 1964. [2]+a+35 p. 4° Φ Paper, \$2.00 (TT: 64-51414).
- 21646 27159. USSR scientific abstracts: Physics and mathematics, no. 19. Oct. 30, 1964. [2] p.+a+331 leaves, ll. 4° Φ Paper, \$7.00 (TT: 64-51415).
- 21647 27160. Translation of Pravda editorial, USSR, no. 340, Oct. 28, 1964. Oct. 30, 1964. [2] p.+4 leaves, 4° Φ Paper, \$1.00 (TT: 64-51416).
- 21648 27161. Superior performance of agricultural aviation, USSR; by A. Anishchenko. Oct. 30, 1964. [2] p.+4 leaves, 4° [From Ekonomika sel'skogo khozyaystva, Aug. 1964.] Φ Paper, \$1.00 (TT: 64-51417).
- 21649 27162. Translations on economic organization and management in Eastern Europe, no. 396. Oct. 30, 1964. [2]+a+31 p. ll. 4° Φ Paper, \$2.00 (TT: 64-51418).
- 21650 27163. Political translations on Eastern Europe, no. 142. Oct. 30, 1964. [2]+a+30 p. 4° Φ Paper, \$2.00 (TT: 64-51419).
- 21651 27164. USSR industrial development: Soviet tractors and agricultural machinery, no. 148. Oct. 30, 1964. [2]+a+12 p. 4° Φ Paper, \$1.00 (TT: 64-51420).
- 21652 27165. Medical aid to victims of water accidents, USSR. Oct. 30, 1964. [2]+a+24 p. ll. 4° [From Meditsinskaya pomoshch' postradavshim na vode, 1964.] Φ Paper, \$2.00 (TT: 64-51421).

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# GOVERNMENT PUBLICATIONS

## LABOR DEPARTMENT

Washington, D.C. 20210

- 21653 Address by Arthur A. Chapin, Special Assistant to Secretary of Labor before Federal Career Day meeting, Lincoln University, Jefferson City, Mo., Oct. 15, 1964. [1964.] 15 leaves, 4° † L 1.13: C 36/5
- 21654 Are you out of school, of work, of luck, want to get in to a job, to school, [build a better future in Neighborhood Youth Corps]. [1964.] [6] p. il. narrow 8° ([Manpower Administration.]) † ● Item 746-G L 1.49: Ou 8
- 21655 Explanation of Manpower development and training act. Revised June 1964. [1964.] [6]+16+[1] p. il. oblong 24° ([Office of Manpower, Automation and Training.]) [Prepared in cooperation with Education Office, Health, Education and Welfare Dept.] † ● Item 745 L 1.2: M 31/6/964
- 21656 Fidelity bonding under Welfare and pension plans disclosure act. [1964.] cover title, iii+43 p. (Labor-Management Services Administration, [Office of Labor Management and Welfare Pension Reports.]) † ● Item 745 L.C. card L 64-20 L 1.2: B 64/2
- 21657 Neighborhood Youth Corps. [1964.] cover title, [20] p. il. oblong 24° ([Manpower Administration.]) [Text on p. 2 and 3 of cover.] † ● Item 746-G L 1.49: N 31
- 21658 Neighborhood Youth Corps and business leadership. [1964.] [2] p. narrow f° folded into oblong 48° size. ([Manpower Administration.]) † ● Item 746-G L 1.49: B 96
- 21659 Neighborhood Youth Corps and your union. [1964.] [2] p. narrow f° folded into oblong 48° size. ([Manpower Administration.]) † ● Item 746-G L 1.49: Un 3
- 21660 Neighborhood Youth Corps, facts. [1964.] 2 p. f° folded into oblong 48° size ([Manpower Administration.]) † ● Item 746-G L 1.49: F 11
- 21661 Neighborhood Youth Corps in your community. [1964.] [2] p. narrow f° folded into oblong 48° size ([Manpower Administration.]) † ● Item 746-G L 1.49: C 73
- 21662 United States Department of Labor annual report, [fiscal year] 1963. [1964.] iii+303 p. il. [Includes reports of subordinate bureaus and offices. Title on cover is: 51st annual report, Department of Labor, fiscal year 1963.] \* Paper, \$1.00. ● Item 744 L.C. card 14-30221 L 1.1: 963
- 21663 What is Neighborhood Youth Corps? [1964.] 12 p. oblong 48° ([Manpower Administration.]) † ● Item 746-G L 1.49: N 31/2
- 21664 Your future and Neighborhood Youth Corps. [1964.] [12] p. il. oblong 48° ([Manpower Administration.]) † ● Item 746-G L 1.49: F 98

## LABOR STANDARDS BUREAU, Labor Dept.

Washington, D.C. 20210

- 21665 Ability calling, program guide for women's group [with list of available publications]. [1964.] iv+27 p. (Women's Committee of President's Committee on Employment of the Handicapped.) [Illustration and text on p. 1 and 2 of cover.] † President's Committee on Employment of the Handicapped, Washington, D.C., 20210. ● Item 766-C L 16.44/2: Ab 5/3

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LABOR STATISTICS BUREAU, Labor Dept.  
Washington, D.C. 20210

BLS reports.

L 2.71: (nos.)

- 21666 160. Wage chronology: Western Union Telegraph Co., 1943-63. Revised 1964. Sept. 1964. v+35+[1] p. 4° \* Paper, 30c. ● Item 768-G  
L.C. card L 61-35
- 21667 231. Same: Lockheed Aircraft Corp. (California Company), 1937-64. Revised 1964. Sept. 1964. iv+29+[1] p. 4° [This revision rearranges information previously published in chronological order by subject matter; no additional or revised information is provided.] \* Paper, 25c. ● Item 768-G  
L.C. card L 63-1
- 21668 263. Conducting labor force survey in developing countries [with bibliography; prepared by Matilda R. Sugg]. Sept. 1964. [7]+177 p. il. 4° [Prepared for Agency for International Development.] † ● Item 768-G  
L.C. card L 64-119
- 21669 277. Wage chronology: American Viscose, 1945-63. Sept. 1964. v+16+[1] p. 4° [Includes material previously published as Wage chronology 32 and supplements 1 and 2.] \* Paper, 20c. ● Item 768-G  
L.C. card L 64-118
- 21670 283. Computation of cost-of-living indexes in developing countries. Sept. 1964. iv+43 p. il. 4° [Prepared for Agency for International Development. First edition written in 1957 by Thomas F. Mosmann and Marion H. Gillim; present edition, which contains minor revisions responsibility of Evelyn R. Kay.] † ● Item 768-G  
L.C. card L 64-116

Bulletins. ● Item 768

L 2.3: (nos.)

- 21670A 1419. Employer expenditures for selected supplementary remuneration practices, finance, insurance, and real estate industries, 1961; [prepared by Gerald D. Wientraub]. Sept. 1964. viii+72 p. il. 4° \* Paper, 45c.  
L.C. card L 64-117
- 21671 1430-5. Occupational wage survey: Oklahoma City, Okla., Aug. 1964; [prepared by James D. Garland]. Oct. 1964. iii+31 p. oblong 8° \* Paper, 25c.  
L.C. card L 49-125
- 21672 1430-6. Same: Raleigh, N.C., Sept. 1964; [prepared by Robert F. McNeely]. Oct. 1964. iii+19 p. oblong 8° \* Paper, 20c.  
L.C. card L 49-125
- 21673 1430-8. Same: San Bernardino-Riverside-Ontario, Calif., Sept. 1964; [prepared by Richard P. Wilson]. Oct. 1964. iii+19 p. oblong 8° \* Paper, 20c.  
L.C. card L 49-125

21674 [This entry number not used.]

- 21675 Consumer price index (revised Jan. 1964), short description. [Sept. 1964.] cover title, 12 p. 4° [Contents on p. 2 of cover.] †  
L.C. card L 59-20

L 2.2: C 766/17/964

- 21676 Directory of community wage surveys, 1948-July 1964. Revised Sept. 1964. [1964.] cover title, i+32+[1] p. [This issue brings up to date directories which were released in earlier years.] † ● Item 768-E  
L.C. card 55-60522

L 2.34/2: W 12/3/948-64

Monthly labor review reprints.

L 2.6/a: (nos.)

- 21677 2443. Special labor force report: no. 44, Geographic mobility and employment status, Mar. 1962-Mar. 1963; [by] Samuel Saben. [1964.] [20] p. il. 4° [From Aug. 1964 issue, with explanatory note and detailed tables added.] †
- 21678 2444. Special labor force report: no. 45, Unemployment among full-time and part-time workers; [by] Robert L. Stein and Jane L. Meredith. [1964.] p. 1009-13, il. 4° [From Sept. 1964 issue. Series number incorrectly given on p. 1009 as 2444.] †

- 21679 Worktime required to buy food and other articles [Sept. 1961]. [1964.] 3 leaves, 4° †

L 2.2: F 73/7/963

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Washington, D.C. 20540

- 21680 Southeast Asia, annotated bibliography of selected reference sources in western languages, revised and enlarged; compiled by Cecil Hobbs. 1964. v+180 p. 4° (Orientalia Division, Reference Department.) \* Paper, \$1.00. ● Item 806-G  
L.C. card 63-60089

LC 17.2: As 4/3/964

21681 [This entry number not used.]

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## MEDICINE AND SURGERY BUREAU (Navy), Defense Dept. Washington, D.C. 20350

- 21682 Care of your teeth and prevention of dental disease, message from your dental officer; [prepared by Naval Dental Clinic, U.S. Naval Station, Washington, D.C., and Naval Dental School, National Naval Medical Center, Bethesda, Md.]. [1964.] cover title, [2]+12+[2] p. il. small 4° [The last 3 pages are left blank to be used for notes.] \* Paper, 15c.  
● Item 385-B D 206.6/3: T 22

## MILITARY ACADEMY, West Point (Army), Defense Dept. West Point, N.Y. 10996

- 21683 This is West Point, pictorial introduction to United States Military Academy. [1964.] 30+[2] p. il. 4° [Two illustrations are colored.] †  
● Item 354 D 109.2: W 52/2

## MINES BUREAU, Interior Dept. Washington, D.C. 20240

Bulletin. ● Item 636

- 21684 611. Oil-shale mining, Rifle, Colo., 1944-56 [with lists of references]; by J. H. East, Jr., and E. D. Gardner. 1964. cover title, vii+163 p. il. 2 pl. 4°  
\* Paper, \$1.25. I 28.3: 611  
L.C. card 64-65487
- 21685 Clays; by James D. Cooper. [1964.] [2]+26 p. il. [Preprint from Minerals yearbook, 1963, v. 1.] \* Paper, 15c. I 28.37/a: C 579/963
- 21686 Coke and coal chemicals; by J. A. DeCarlo and E. T. Sheridan. [1964.] [2]+63 p. il. [Preprint from Minerals yearbook, 1963, v. 2.] \* Paper, 25c. I 28.37/a: C 669/2/963
- 21687 Copper; by F. L. Wideman. [1964.] [2]+46 p. il. [Preprint from Minerals yearbook, 1963, v. 1.] \* Paper, 20c. I 28.37/a: C 793/963
- 21688 Employment and injuries in minerals industries; by Forrest T. Moyer. [1964.] [2]+7 p. [Preprint from Minerals yearbook, 1963, v. 3.] \* Paper, 10c. I 28.37/a 2: Em 73/963
- 21689 Gold; by J. P. Ryan. [1964.] [2]+24 p. il. [Preprint from Minerals yearbook, 1963, v. 1.] \* Paper, 15c. I 28.37/a: G 563/16/963

### Information circulars.

I 28.27: (nos.)

- 21690 8235. Review of well stimulation and techniques to prevent formation damage in oil and gas production [with selected bibliographies]; by J. L. Eakin, J. S. Miller, and V. Vern Hutchison. [1964.] [3]+84 p. 4° [Based on work done in cooperation with Pipeline Research Committee, American Gas Association.] † Mines Bureau, Pittsburgh, Pa., 15213  
L.C. card 64-65557
- 21691 8237. Bureau of Mines research and technologic work on coal, 1963 [with bibliography]; by Bureau of Mines staff. [1964.] [2]+vi+128 p. il. 4°  
† Mines Bureau, Pittsburgh, Pa., 15213  
L.C. card 45-36585
- 21692 8240. Selected list of Bureau of Mines publications on petroleum and natural gas, 1910-62; compiled by V. Vern Hutchison. [1964.] iii+98 p. 4°  
[Based on work done in cooperation with Oklahoma.] \* Paper, 50c.  
L.C. card 64-65570
- 21693 Iron and steel; by Robert A. Whitman. [1964.] [2]+30 p. il. [Preprint from Minerals yearbook, 1963, v. 1.] \* Paper, 15c. I 28.37/a: Ir 6/5/963
- 21694 Iron ore; by Horace T. Reno. [1964.] [2]+31 p. il. [Preprint from Minerals yearbook, 1963, v. 1.] \* Paper, 15c. I 28.37/a: Ir 6/3/963
- 21695 Lead; by Donald E. Moulds. [1964.] [2]+35 p. il. [Preprint from Minerals yearbook, 1963, v. 1.] \* Paper, 15c. I 28.37/a: L 469/963

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- 21696 Lime; by Perry G. Cotter. [1964.] [2]+14 p. il. [Preprint from Minerals yearbook, 1963, v. 1.] \* Paper, 10c. I 28.37/a: L 629/963
- 21697 Mineral industry of Georgia; by James L. Valley and Garland Peyton. [1964.] [2]+16 p. [Preprint from Minerals Yearbook, 1963, v. 3.] \* Paper, 10c. I 28.37/a2: G 29/963
- 21698 Mineral industry of Hawaii; by Roy Y. Ashizawa. [1964.] [2]+9 p. [Preprint from Minerals yearbook, 1963, v. 3.] \* Paper, 10c. I 28.37/a2: H 31/963
- 21699 Mineral industry of Idaho; by Jerry J. Gray, Richard W. Knostman, and Norman S. Petersen. [1964.] [2]+26 p. il. [Preprint from Minerals yearbook, 1963, v. 3.] \* Paper, 15c. I 28.37/a2: Id 1/963
- 21700 Mineral industry of Maryland; by N. A. Eilertsen. [1964.] [2]+12 p. il. [Preprint from Minerals yearbook, 1963, v. 3.] \* Paper, 10c. I 28.37/a2: M36/963
- 21701 Mineral industry of Massachusetts; by Robert W. Metcalf. [1964.] [2]+10 p. il. [Preprint from Minerals yearbook, 1963, v. 3.] \* Paper, 10c. I 28.37/a2: M 38/963
- 21702 Mineral industry of New Jersey; by Charles C. Yeloushan. [1964.] [2]+14 p. il. [Preprint from Minerals yearbook, 1963, v. 3.] \* Paper, 10c. I 28.37/a2: N42j/963
- 21703 Mineral industry of North Carolina; by James R. Boyle and Jasper L. Stuckey. [1964.] [2]+17 p. il. [Preprint from Minerals yearbook, 1963, v. 3.] \* Paper, 10c. I 28.37/a2: N 81c/963
- 21704 Mineral industry of Oregon; by Frank B. Fulkerson, William N. Hale, and Gary A. Kingston. [1964.] [2]+17 p. il. [Preprint from Minerals yearbook, 1963, v. 3.] \* Paper, 10c. I 28.37/a2: Or 3/963
- 21705 Mineral industry of Rhode Island; by Samuel A. Gustavson. [1964.] [2]+4 p. il. [Preprint from Minerals yearbook, 1963, v. 3.] \* Paper, 5c. I 28.37/a2: R 34/963
- 21706 Mineral industry of South Carolina; by Lawrence E. Shirley and Henry S. Johnson, jr. [1964.] [2]+16 p. il. [Preprint from Minerals yearbook, 1963, v. 3.] \* Paper, 10c. I 28.37/a2: So8c/963
- 21707 Natural gas; by Ivan F. Avery. [1964.] [2]+24 p. il. [Preprint from Minerals yearbook, 1963, v. 2.] \* Paper, 15c. I 28.37/a: G 21/963
- 21708 Natural gas liquids; by I. F. Avery. [1964.] [2]+28 p. il. [Preprint from Minerals yearbook, 1963, v. 2.] \* Paper, 15c. I 28.37/a: G 21/2/963

## Report of investigations.

I 28.23: (nos.)

- 21709 6533. Modules of elasticity of rock determined by 4 different methods [with list of references]; by Francis X. Cannaday. [1964.] [2]+iii+59 p. il. 4° † Mines Bureau, Pittsburgh, Pa., 15213.
- 21710 6537. Development of rock stress monitoring station based on flat slot method of measuring existing rock stress [with list of references]; by Louis A. Panek and John A. Stock. [1964.] [2]+ii+61 p. il. 4° † Mines Bureau, Pittsburgh, Pa., 15213.
- 21711 6538. Washability studies and cleaning trials on coals from Pierce County, Wash.; by M. R. Geer. [1964.] [3]+27 p. 4° [Based on work done in cooperation with School of Mineral Engineering, University of Washington and Pacific Coast Co.] † Mines Bureau, Pittsburgh, Pa., 15213.
- 21712 6542. Hydrocarbon-type relationships of Eastern and Western Hemisphere high-sulfur crude oils [with list of references]; by Harold M. Smith. [1964.] [2]+ii+89 p. il. 4° † Mines Bureau, Pittsburgh, Pa., 15213.
- 21713 6543. Preventing ignition of dust dispersions by inerting; by John Nagy, Henry G. Dorsett, Jr., and Murray Jacobson. [1964.] [2]+ii+29 p. il. 4° † Mines Bureau, Pittsburgh, Pa., 15213.
- 21714 6544. Device for placing borehole deformation gage in horizontal hole [with list of references]; by David W. Wisecarver. [1964.] [3]+13 p. il. 4° † Mines Bureau, Pittsburgh, Pa., 15213.

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## Report of investigations—Continued

- 21715 6545. Apparatus for determining helium content of gas mixtures; by E. M. Frost, C. G. Kirkland, and D. E. Emerson. [1964.] [3]+18 p. il. 4° † Mines Bureau, Pittsburgh, Pa., 15213.
- 21716 6547. Recrystallization of vanadium [with list of references]; by E. A. Loria, W. D. Ludemann, and E. A. Rowe. [1964.] [2]+il+38 p. il. 4° † Mines Bureau, Pittsburgh, Pa., 15213.
- 21717 6550. Statistical interpretation of sample assay data from Mt Vldn uranium mine, Big Indian district, San Juan County, Utah [with list of references]; by George S. Koch, jr., Richard F. Link, and Scott W. Hazen, jr. [1964.] [2]+li+40 p. il. 4° † Mines Bureau, Pittsburgh, Pa., 15213.
- 21718 6553. Some effects of yttrium and rare-earth-metal additions on electrorefined vanadium [with list of references]; by W. L. O'Brien and E. A. Rowe. [1964.] [2]+il+23 p. il. 4° † Mines Bureau, Pittsburgh, Pa., 15213.
- 21719 Sand and gravel; by Perry G. Cotter. [1964.] [2]+26 p. il. [Preprint from Minerals yearbook, 1963, v. 1.] \* Paper, 15c. I 28.37/a: Sa 56/963
- 21720 Silver; by J. P. Ryan. [1964.] [2]+24 p. il. [Preprint from Minerals yearbook, 1963, v. 1.] \* Paper, 15c. I 28.37/a: Si 39/3/963
- 21721 Stone; by Perry G. Cotter. [1964.] [2]+25 p. il. [Preprint from Minerals yearbook, 1963, v. 1.] \* Paper, 15c. I 8.37/a: St 72/963
- 21722 Zinc; by H. J. Schroeder. [1964.] [2]+38 p. il. [Preprint from Minerals yearbook, 1963, v. 1.] \* Paper, 15c. I 28.37/a: Z 66/963

## MINT BUREAU, Treasury Dept. Washington, D.C. 20220

- 21723 Domestic coin manufactured by mints of United States since organization to include year 1963. 1964. [1]+68 p. [From Annual report of Director of Mint. Supersedes issue of 1961.] \* Paper, 25c. T 28.1/a: C 666/2/963  
L.C. card 36-26170

## NARCOTICS BUREAU, Treasury Dept. Washington, D.C. 20226

### Regulations.

- 21724 7. Regulations relating to production, manufacture, purchase, sale, and giving away of opium poppies and opium and opium products under Opium poppy control act of 1962 (Public law 797, 77th Congress, 2d session), applicable statutes and Bureau of Narcotics regulations, effective date Feb. 10, 1943, revised Oct. 1, 1964. 1964. [1]+11 p. † ● Item 968 T 56.6: 7/2  
L.C. card 64-65558

## NATIONAL AERONAUTICS AND SPACE ADMINISTRATION Washington, D.C. 20546

### NASA contractor report CR (series).

NAS 1.26: (nos.)

- 21725 101. Fluid amplifier, state of the art: v. 1, Research and development, fluid amplifiers and logic [with lists of references; by P. L. Abbey and others]. Oct. 1964. cover title, viii+[279] p. il. 4° [Prepared under contract NAS 8-5408 by General Electric Company, Schenectady, N.Y.] Φ Paper, \$4.00. L.C. card 64-65451
- 21726 102. Same: v. 2, Bibliography. Oct. 1964. cover title, ix+115 p. 4° [Prepared under contract NAS 8-5408 by General Electric Company, Schenectady, N.Y.] Φ Paper, \$2.75. L.C. card 64-65451
- 21727 103. 9½ foot diameter master and mirror [with list of references]. Oct. 1964. cover title, x+[208] p. il. 4° [Prepared by General Electric Co. under contract 950239 for Jet Propulsion Laboratory under contract NAS 7-100.] Φ Paper, \$3.50. L.C. card 64-65454
- 21728 113. Prestressed monolithic and segmented brittle structures [with bibliography]; by R. L. Barnett, Paul Hermann, and James Costello. Oct. 1964. cover title, viii+88 p. il. 4° [Prepared under contract NASr-65(04) by IIT Research Institute, Chicago, Ill.] Φ Paper, \$2.25.

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- 21729 116. Condensing pressure drop by Improved Lockhart-Martinelli method [with list of references]; by Fred L. Robson and Winthrop E. Hilding. Oct. 1964. cover title, [2]+19 p. ll. 4° [Prepared under contract NSG-204-62 by University of Connecticut, Storrs, Conn.] Φ Paper, 50c.
- 21730 117. Phenomenon of hot-salt stress-corrosion cracking of titanium alloys; by W. K. Boyd and F. W. Fink. Oct. 1964. cover title, [1]+44 p. ll. 4° [Prepared under contract NASr-100(04) by Battelle Memorial Institute, Columbus, Ohio.] Φ Paper, \$1.25.
- 21731 118. Investigation of mechanical properties of chromium-rhenium, and derived alloys [with list of references]; by A. Gilbert, B. C. Allen, and C. N. Reid. Nov. 1964. cover title, vi+51+A-5 p. 4° [Prepared under contract NASw-101 by Battelle Memorial Institute, Columbus, Ohio.] Φ Paper, \$1.75.
- 21732 119. Effect of runway unevenness on dynamic response of supersonic transports [with bibliography]; by C. C. Tung, J. Penzlen, and R. Horonjeff. Oct. 1964. cover title, xv+109 p. ll. 4° [Prepared under Grant NSG-348 by University of California, Berkeley, Calif.] Φ Paper, \$2.75.
- 21733 120. Self-sealing structures for control of meteoroid hazard to space vehicles [with lists of references]; by Philip J. D'Anna, Roger M. Heitz, and James J. Plochocki. Oct. 1964. cover title, ix+107+A-7 p. ll. 4° [Prepared under contract NASr-102 by Northrop Space Laboratories, Hawthorne, Calif.] Φ Paper, \$2.75.  
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- 21734 122. Rotary, deployable space solar power supply [with list of references]; by H. Schuerch and W. Robbins. Oct. 1964. cover title, vii+81 p. ll. 4° [Prepared under contract NASw-652 by Astro Research Corporation, Santa Barbara, Calif.] Φ Paper, \$2.25.  
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- 21735 123. Regularized explicit solution of analytic N-body problem [with list of references]; by L. M. Rauch. Oct. 1964. cover title, v+28 p. 4° [Prepared under grant NSG-413 by Seton Hall University, South Orange, N.J.] Φ Paper, \$1.00.
- 21736 124. Heat transfer studies of vapor condensing at high velocities in small straight tubes [with list of references]; by Winthrop E. Hilding and Charles H. Coogan, Jr. Oct. 1964. cover title, vii+131 p. ll. 4° [Prepared under contract NSG-204-62 by University of Connecticut, Storrs, Conn.] Φ Paper, \$2.75.  
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- 21737 128. Reliability and redundant circuitry [with list of references]; by P. R. Dennis and Sundarum Seshu. Oct. 1964. cover title, v+30 p. ll. 4° [Prepared under contract NASw-778 by Clyde Williams and Company, Columbus, Ohio.] Φ Paper, \$1.00.
- 21738 129. Study of general dynamics of physical-chemical systems in mammals [with bibliography]; by A. S. Iberall. Oct. 1964. cover title, v+99+16 p. ll. 4° [Prepared under contract NASw-1066 by General Technical Services, Inc., Cleveland, Ohio.] Φ Paper, \$2.75.  
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## NASA EP (series). ● Item 830-G

- 21739 6. Space, the new frontier; [by Victor Segel]. [Revised edition]. [1964.] cover title, 72 p. ll. oblong 8° [Text on p. 2 of cover. Other illustrations in color on p. 1-4 of cover.] \* Paper, 50c.  
L.C. card 64-60666 NAS 1.19: 6/2

## NASA quality publication NPC 200 (series).

- 21740 4. Quality requirements for hand soldering of electrical connections. Aug. 1964 edition. [1964.] cover title, vii+[72] p. ll. 4° [Includes list of documents referenced. Issued with perforations.] \* Paper, 45c. ● Item 830-M  
L.C. card 64-65574 NAS 1.22: 4

## NASA SP (series).

NAS.1.21: (nos.)

- 21741 61. Ranger VII, photographs of moon: pt. 1, Camera A series [with list of references]; by Gerald M. Smith, Donald E. Willingham, and William E. Kirchofer. Sept. 1964. x+17 p. ll. 199 pl. large 4° (Scientific and Technical Information Division.) [Prepared under contract for NASA by Jet Propulsion Laboratory, California Institute of Technology.] \* Paper, \$6.50. ● Item 830-I  
L.C. card 64-65462
- 21742 5009. Technology utilization notes: Selected welding techniques, pt. 2, from George C. Marshall Space Flight Center, Huntsville, Ala. July 1964. v+34 p. ll. 4° (Technology Utilization Division.) \* Paper, 30c.  
● Item 830-I  
L.C. card 64-60853
- 21743 5015. Conference on New Technology, Lewis Research Center, Cleveland, Ohio, June 4-5, 1964. 1964. v+156 p. ll. 4° (Scientific and Technical Information Division.) \* Paper, \$1.00. ● Item 830-I  
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## NASA SP (series)—Continued

- 21744 7011 (03). Aerospace medicine and biology, continuing bibliography, selection of annotated references to unclassified reports and journal articles that were introduced into NASA information system Aug.-Sept. 1964. Oct. 1964. [2] + iv + 74 + 72 p. 4° (Scientific and Technical Information Division.) [Compiled in cooperation with Aerospace Medicine and Biology Bibliography Project (AMBRP) of Library of Congress and American Institute of Aeronautics and Astronautics.] † Paper, \$1.00. L.C. card 64-62433

NASA tech briefs. [Issued by Technology Utilization Division to acquaint industry with technical content of innovation derived from NASA space program. Issued with perforations.] †

- 21745 63-10558. New method forms bond line free of voids. Oct. 1964. [2] p. ll. 4° NAS 1.29: 63-10558

## NASA technical note TN (series).

NAS 1.14: D-(nos.)

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- 21754 D-2153. Determination of less than 10 parts per million carbon in tungsten [with list of references]; by William A. Gordon, Judson W. Graab, and Zita T. Tunney. Oct. 1964. cover title, [1] + 12 + [1] p. ll. 4° Φ Paper, 50c.
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- 21764 D-2206. Analysis of plastic thermal stresses and strains in finite thin plate of strain-hardening material [with list of references]; by Ernest Roberts, jr., and Alexander Mendelson. Oct. 1964. cover title, [1] + 24 + [1] p. ll. 4° Φ Paper, 75c.

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- 21765 D-2207. Effect of electron irradiation on some properties of Echo II laminate [with list of references]; by Thomas G. James. Oct. 1964. cover title, [1]+23+[1] p. il. 4°  $\Phi$  Paper, 75c.
- 21766 D-2209. Flow and heat transfer between heated plates of finite length in free-molecule flow environment [with list of references]; by Morris Perlmutter. Oct. 1964. cover title, [1]+31+[1] p. il. 4°  $\Phi$  Paper, \$1.00.
- 21767 D-2210. Two-dimensional flux and criticality calculations for Plum Brook reactor [with list of references]; by John H. Lynch. Oct. 1964. cover title, [1]+47+[1] p. il. 4°  $\Phi$  Paper, \$1.25.
- 21768 D-2211. Monte Carlo solution for characteristics of highly rarefied ionized gas flowing through channel with transverse magnetic field [with list of references]; by Morris Perlmutter. Oct. 1964. cover title, [1]+22+[1] p. il. 4°  $\Phi$  Paper, 75c.
- 21769 D-2212. On use of single total- and static-pressure probes to measure average mass velocity in thin rectangular channels [with list of references]; by Joseph M. Savino and Andrew J. Hilovsky. Oct. 1964. cover title, [1]+10+[2] p. il. 4°  $\Phi$  Paper, 50c.
- 21770 D-2213. Heat transfer for laminar slip flow of rarefied gas in parallel-plate channel or circular tube with uniform wall temperature [with list of references]; by Robert M. Inman. Nov. 1964. cover title, [1]+38+[1] p. il. 4°  $\Phi$  Paper, \$1.00.
- 21771 D-2259. Instability effect on 2-phase heat transfer for subcooled water flowing under conditions of zero gravity [with list of references]; by S. Stephen Papell. Nov. 1964. cover title, [1]+11+[1] p. il. 4°  $\Phi$  Paper, 50c.
- 21772 D-2302. Heat transfer distribution on 70° swept slab delta wings at Mach number of 9.86 and angles of attack up to 90° [with list of references]; by Philip E. Everhart and James C. Dunavant. Oct. 1964. cover title, [1]+50+[2] p. il. 4°  $\Phi$  Paper, \$1.25.
- 21773 D-2356. Numerical integration of differential equations by power series expansions, illustrated by physical examples [with list of references]; by Erwin Fehlberg. Oct. 1964. cover title, iii+12+[1] p. il. 4°  $\Phi$  Paper, 50c.
- 21774 D-2415. Technique for simulation of lunar and planetary gravitational fields including pilot model studies [with list of references]; by Huey D. Carden, Robert W. Herr, and George W. Brooks. Oct. 1964. cover title, [1]+18+[2] p. il. 4°  $\Phi$  Paper, 50c.
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- 21776 D-2503. Effects of purity and structure on recrystallization, grain growth, ductility, tensile, and creep properties of arc-melted tungsten [with list of references]; by William D. Klopp and Peter L. Raffo. Nov. 1964. cover title, [1]+46+[1] p. il. 4°  $\Phi$  Paper, \$1.25.

## NASA technical report R (series).

- 21777 210. Angle-of-attack convergence of spinning bodies entering planetary atmospheres at large inclinations to flight path [with list of references]; by Murray Tobak and Victor L. Peterson. Oct. 1964. cover title, [1]+19+[1] p. il. 4°  $\Phi$  Paper, 50c. NAS 1.12: 210

## NASA technical translation TT (series).

NAS 1.13/2: F-(nos.)

- 21778 F-204. Aurorae and airglow [papers, with bibliographies]; edited by V. I. Krasovskiy. Oct. 1964. cover title, iv+279 p.+ [2] leaves, 4° [From IGY program, sec. 4, no. 10, Izdatel'stvo Akademii Nauk SSSR, 1963.]  $\Phi$  Paper, \$4.00.
- 21779 F-231. Gasdynamics of combustion [with list of references]; by K. I. Shchelkin and Ya. K. Troshin. Oct. 1964. cover title, v+365+[4] p. il. 4° [From Izdatel'stvo Akademii Nauk SSSR, Moscow, 1963.]  $\Phi$  Paper, \$5.00.
- 21780 F-260. Questionnaire language and abstract synthesis of minimal sequential machines [with bibliography]; by A. A. Tal' Nov. 1964. cover title, [1]+32+[2] p. il. 4° [From Avtomatika i telemekhanika, v. 25, no. 6, 1964.]  $\Phi$  Paper, \$1.00.

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### Special lists.

- 21781 20. Papers of United States Senate relating to presidential nominations, 1789-1901 (record group 46); compiled by Georga P. Perros, James C. Brown and Jacqueline A. Wood. 1964. viii+111 p. 4° ([National Archives publication 65-4.])  $\dagger$   
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### Miscellaneous publication. • Item 247

- 21782 256. Ellipsometry in measurement of surfaces and thin films, symposium proceedings, Sept. 5-6, 1963, at National Bureau of Standards, Washington, D.C. [with lists of references]; edited by E. Passaglia, R. R. Stromberg, and J. Kruger. Sept. 15, 1964. vi+359 p. il. • Cloth, \$2.25. C 13.10 : 256  
L.C. card 64-60043

### Technical notes. • Item 249-A

C 13.46: (nos.)

- 21783 222. Minimum telemetry receiving system for Alouette topside sounder satellite; [by] Earl E. Ferguson and Richard G. Green. Oct. 9, 1964. v+1-12 p. + leaves 13-22, il. 4° • Paper, 30c.
- 21784 224. Computation of modified Fresnel Integral arising in theory of diffraction by variable screen [with lists of references; by] L. C. Walters and J. R. Wait. Oct. 14, 1964. iii+20 p. il. 4° • Paper, 20c.
- 21785 232. Bibliography on measurement of bulk resistivity of semiconductor materials for electron devices; [by] Judson C. French. Oct. 21, 1964. ii+13+ [105] p. 4° [Addendum, dated Oct. 20, 1964, 1 p., issued also.] • Paper 60c.  
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- 21786 249. Program for plotting circles of constant overpressure around targeted points [with list of references; by] Mal Lils Joel and Douglas D. Lottridge. Oct. 28, 1964. iv+54 p. il. 4° • Paper, 40c.
- 21787 251. Research on crystal growth and characterization at National Bureau of Standards, Jan.-June 1964 [with list of literature references]; edited by Howard F. McMurdie. Oct. 19, 1964. iv+72 p. il. 4° • Paper, 45c.

## NATIONAL GUARD BUREAU, Defense Dept. Washington, D.C. 20310

### NGB pamphlets. • Item 358

D 12.8: (nos.)

- 21788 44-2. Announcement of winners, National Guard Association trophy, Pershing trophy, National Guard (State) trophy. [Aug. 15, 1964.] cover title, [1]+10 p. il. 4° (Departments of Army and Air Force.) [Issued with perforations. Supersedes NGB Pamphlet 44-2, dated Jan. 15, 1964.] ‡
- 21789 44-4. Announcement of winners, chief of National Guard Bureau's trophies (indoor rifle matches, postal) [for year ending May 30, 1964]. [Sept. 15, 1964.] cover title, [1]+34 p. 4° (Departments of Army and Air Force.) [Issued with perforations. Supersedes NGB pam. 44-4, July 1, 1964.] ‡

## NATIONAL INSTITUTES OF HEALTH, Health, Education, and Welfare Dept., Bethesda, Md. 20014

- 21790 Construction grants for mental retardation research centers. [1964.] 6 p. narrow 8° ([Public Health Service publication 1231.]) • Paper, 5c.  
• Item 507 FS 2.22: M 52/41

- 21791 Digest, progress reports on State mental health planning, 1964; [prepared by Dorothea L. Dolan]. [Aug. 1964.] vi+78 p. 4° ([Public Health Service publication 1248]; National Institute of Mental Health.) [National clearinghouse for mental health information.] † • Item 507  
L.C. card 64-65566 FS 2.22: M 52/42

### National Cancer Institute monograph.

- 21792 15. International Symposium on End Results of Cancer Therapy [held Sandefjord, Norway, Sept. 16-20, 1963, with lists of references; edited by Sidney J. Cutler]. Oct. 1964. x+446 p. il. large 8° • Cloth, \$3.75. • Item 507-L  
L.C. card 64-65480 FS 2.22/18: 15

- 21793 NIDR reports on dental research; prepared by National Institute of Dental Research. Jan. 1964. vi+31 p. il. ([Public Health Service publication 1244.]) • Paper, 25c. • Item 507  
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- 21794 Patient movement data, State and county mental hospitals, 1961, Model Reporting Area for Mental Hospital Statistics, data classified by age, sex, diagnosis and time on books [with list of references]; prepared by National Institute of Mental Health, Biometrics Branch, Hospital Studies Section. [1964.] v+75 p. il. 4° ([Public Health Service publication 1189.]) \* Paper, 45c. ● Item 507-A-11  
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- 21795 Decisions and orders of National Labor Relations Board, v. 144, Aug. 16-Nov. 15, 1963. 1964. xiv+1615 p. \* Cloth, \$5.25. ● Item 826  
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## Bulletins. ● Item 919

- 21796 240. 1893 Duryea automobile; [by] Don H. Berkebile. 1964. cover title, p. 1-28, il. 4° (Contributions from Museum of History and Technology, paper 34.) [Includes list of references in footnotes.] \* Paper, 30c. SI 3.3: 240/paper 34  
L.C. card 64-65536  
21797 Borghesi astronomical clock [with bibliography; by Silvio A. Bedini]. 1964. cover title, p. 29-76, il. 4° (Contributions from Museum of History and Technology, paper 35.) \* Paper, 70c. SI 3.3: 240/paper 35  
L.C. card 64-65483  
21798 Engineering contributions of Wendel Bollman [with bibliography; by] Robert M. Vogel. 1964. cover title, [2]+79-104 p. il. 4° (Contributions from Museum of History and Technology, paper 36.) \* Paper, 70c. SI 3.3: 240/paper 36  
L.C. card 64-65482  
21799 Earliest electromagnetic instruments; [by] Robert A. Chipman]. 1964. cover title, [2]+123-136 p. il. 4° (Contributions from Museum of History and Technology, paper 38.) [Includes list of references in footnotes.] \* Paper, 20c. SI 3.3: 240/paper 38  
L.C. card 64-65484  
21800 Tunnel engineering, museum treatment [with bibliography; by] Robert M. Vogel. 1964. cover title, [2]+203-240 p. il. 4° (Contributions from Museum of History and Technology, paper 41.) \* Paper, 70c. SI 3.3: 240/paper 41  
L.C. card 64-65481  
21801 History of Division of Medical Sciences [with bibliography; by] Sami Hamarneh. 1964. cover title, [2]+271-300 p. il. 4° (Contributions from Museum of History and Technology, paper 43.) \* Paper, 30c. SI 3.3: 240/paper 43  
L.C. card 64-65488

## Proceedings of National Museum. † ● Item 922 SI 3.6: 116/(nos.)

- 21802 3501. Neotropical Microlepidoptera. 5 synopses of species of genus *Proenlia* from Central Chile (Lepidoptera, Tortricidae) [with list of literature cited]; by Nicholas S. Obraztsov. 1964. v. 116, cover title, p. 183-195, 9 pl. SI 3.6: 116/(nos.)  
21803 3502. Neotropical Microlepidoptera: 6. Genera *Orotricha* Meyrick and *Palinorsa* Meyrick (Gelechiidae, Oecophoridae); by J. F. Gates Clarke. 1964. v. 116, p. 197-204 il., 1 pl.

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- 21804 Arches National Monument, Utah. Revised 1964. [1964.] [6] p. il. \* Paper, 5c. ● Item 650 I 29.21: Ar 2/2/964  
21805 Craters of the Moon National Monument, Idaho. [July 1964.] [2] p. il. narrow f°, folded into narrow 8° size. \* Paper, 15c. ● Item 650 I 29.21: C 85/2/964-2  
21806 Kenilworth Aquatic Gardens. [Revised 1964.] [1964.] [8] p. il. ([National Capital Parks.]) \* Paper, 5c. ● Item 651 I 29.6: K 35/964  
21807 Prince William Forest Park, Va. [Revised 1964.] [1964.] [10] p. il. narrow 8° † ● Item 651 I 29.6: P 93/964-2  
21808 Theodore Roosevelt Birthplace National Historic Site, New York City, N.Y. [1964.] [14] p. il. narrow 8° \* Paper, 10c. ● Item 650 I 29.21: T 34/2

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- 21809 Awards 11661-730, 3d division, v. 120. Champlin-Shealy Company, Chicago, Ill. [1964.] [1]+990 p. † National Railroad Adjustment Board, Chicago, Ill. (price upon application).  
L.C. card 36-26212 RA 1.9: 120
- 21810 Awards 11791-850, 3d division, interpretations (serial nos. 205, 206, 207), v. 122. Champlin-Shealy Company, Chicago, Ill. [1964.] [1]+983+[2] p. † National Railroad Adjustment Board (price upon application).  
L.C. card 36-26212 RA 1.9: 122

## NAVAL OCEANOGRAPHIC OFFICE, Defense Dept.

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National Oceanographic Data Center publication: Catalog series.

- 21811 C-5. Computer programs in oceanography (provisional); [compiled by C. Dinger]. 1964. v+58+[5] p. 4° [Consolidates Preliminary list (NODC progress report F-12), June 1963, and Supplementary list, Sept. 1963.] † Paper, 60c.  
L.C. card 64-65568 D 203.24: C-5
- Publications. ● Item 378 (Rev. 1957) D 203.22: (nos.)
- 21812 82. Sailing directions for Pacific Islands: v. 1. Western groups, including Solomon Islands. 2d edition, 1964. 1964. xv+456 p. fl. map in pocket, 4° [Formerly no. 165A. Includes list of effective pages. Issued in loose-leaf form.] † Paper, \$3.00; with ring binder, \$4.50.  
L.C. card 64-65553
- 21813 112. Change 4, Sept. 26, 1964, to List of lights and fog signals, Western Pacific and Indian Oceans including Persian Gulf and Red Sea. 1964. [128] p. 4° [Includes list of effective pages and Notice to mariners 39, 1964. Issued in loose-leaf form.] † Paper, 50c.
- 21814 113. Change 4, Sept. 12, 1964, to List of lights and fog signals, west coasts of Europe and Africa, Mediterranean Sea, Black Sea, and Azovskoye More (Sea of Azov). 1964. [148] p. 4° [Includes list of effective pages and Notice to mariners 37, 1964. Issued in loose-leaf form.] † Paper, 50c.
- 21815 114. Change 3, Sept. 26, 1964, List of lights and fog signals, British Isles, English Channel and North Sea. 1964. [74] p. 4° [Includes list of effective pages and Notice to mariners 39, 1964. Issued in loose-leaf form.] † Paper, 50c.
- 21816 115. Change 3, Oct. 10, 1964, List of lights and fog signals, Norway, Iceland, and Arctic Ocean. 1964. [74] p. 4° [Includes list of effective pages and Notice to mariners 41, 1964. Issued in loose-leaf form.] † Paper, 50c.
- 21817 116. Change 4, List of lights and fog signals, Baltic Sea with Kattegat, belts and sound and Gulf of Bothnia; Sept. 19, 1964. 1964. [92] p. fl. 4° [Includes list of effective pages and Notice to mariners 38, 1964. Issued in loose-leaf form.] † Paper, 50c.
- 21818 118-B. Change 2, Oct. 3, 1964, to Radio weather aids, Pacific and Indian Oceans area, 1st edition. 1964. [62] p. fl. 4° [Includes list of effective pages and Notice to mariners, no. 40, 1964. Issued in loose-leaf form.] † Paper, 50c.
- 21819 U.S. Naval Oceanographic Office chart correction list [from] Notice to mariners 1-26 of 1964, arranged according to chart numbers, Oceanographic Office charts. [1964.] 36 p. [Semiannual.] †  
D 203.21/2: 964

## NAVAL OPERATIONS OFFICE, Defense Dept.

Washington, D.C. 20350

- 21820 Evolution of aircraft carriers; by Scot MacDonald. [1964.] cover title, 73 p. fl. 4° [Articles reprinted from Naval aviation news, Feb. 1962-Nov. 1963.] \* Paper, 55c.  
D 207.2: A17

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- 21821 [United States submarine losses, World War II, paster.] [1964.] 1 p. il. 24° [The paster is a photo to be affixed over picture captioned John A. Moore on p. 80 of U.S. submarine losses, World War II, for which see Entry 16784 in Sept. 1964 Monthly Catalog.] † ● Item 399-A  
D 207.10/2: Su 1/2/paster

## NAVAL PERSONNEL BUREAU, Defense Dept. Washington, D.C. 20370

- 21822 Postal clerk 1 & C [with reading list; prepared by Navy Training Publications Center]. [1st edition 1964.] [1964.] cover title, iv+167 p. il. 4° (Navy training course, NAVPERS 10216.) \* Paper, \$1.00. ● Item 404  
L.C. card 64-65416 D 208.11: P 84/2
- 21823 U.S. Navy shore patrol; [prepared by Navy Training Publications Center]. [1st printing 1953, revised 1964.] [1964.] cover title, iii+155 p. il. 4° (Navy training course, NAVPERS 10059-B.) † ● Item 404  
L.C. card 64-65537 D 208.11: Sh 7/964
- 21824 Yeoman 3 & 2, with reading list; [prepared by Navy Training Publications Center]. [Original edition 1950, revised 1964.] [1964.] cover title, iv+189 p. il. 4° (Navy training course, NAVPERS 10240-D.) † ● Item 404  
L.C. card 64-65505 D 208.11: Y 4/964

## NAVAL RESEARCH OFFICE, Defense Dept. Washington, D.C. 20390

Naval Training Device Center, Port Washington, N.Y.: Technical report NAVTRADEVCCEN (series). † D 210.14: (nos.)

- 21825 1182-5. Bio-instrumentation for control of pressure chambers [with bibliographies; by] M. Chodes. Aug. 10, 1964. vii+1-22a, 23-120 p. il. 4° (Kollsman Instrument Corporation, Elmhurst, N.Y.; contract N61339-1182.) [Text on p. 2 of cover. Some pages issued as leaves. Issued with perforations.]
- 21826 1205-3. Simulation of helicopter and V/STOL aircraft: v. 3, pt. 1, Computational methods analog, study, equations of motion of vertical/short take-off and landing operational flight/weapon system trainers [with bibliography; by] R. A. Castle, A. L. Gray, Walter McIntyre. May 1964. cover title, vi+1-25a, 26-142 p. il. 4° (Melpar, Inc., Falls Church, Va.; contract N61339-1205.) [Text on p. 2 of cover. Some pages are issued as leaves. Issued with perforations.]
- 21827 Same: v. 3, pt. 2, Computational methods of digital, study, equations, of motion of vertical/short take-off and landing operational flight/weapon system trainers [with bibliography; by] Burton G. Tregub, Merlin F. Coffee, C. E. Russell. Aug. 1963. cover title, vi+112 p. il. 4° (Melpar, Inc., Falls Church, Va.; contract N61339-1205.) [Text on p. 2 of cover. Issued with perforations.]
- 21828 1215-1. Perception of distortion, experimental study of distance and perspective in Ames trapezoid illusion [with bibliography; by] Richard T. Zegers, Thomas B. Malone. June 1964. cover title, v+52 p. il. 4° (Department of Psychology, Fordham University, New York, N.Y.; contract N61339-1215.) [Text on p. 2 of cover.]

## OUTDOOR RECREATION BUREAU, Interior Dept. Washington, D.C. 20240

- 21829 Implementation of land and water conservation fund act of 1965, remarks by A. Heaton Underhill, assistant director, Bureau of Outdoor Recreation, Department of Interior, at annual meeting of National Audubon Society, Tucson, Ariz., Nov. 9, 1964. [1964.] 6 leaves, 4° †  
I 66.9: Un 2/2

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# GOVERNMENT PUBLICATIONS

## PATENT OFFICE, Commerce Dept.

Washington, D.C. 20230

- 21830 Patents & inventions, information aid for inventors. Revised edition. 1964. iii+26 p. \* Paper, 15c. ● Item 254  
L.C. card 64-65511 C 21.2: P 27/10/964

## POST OFFICE DEPARTMENT

Washington, D.C. 20260

- 21831 [Commemorative stamp poster]: 5-cent Christmas postage stamps, available at your local post office, Nov. 10, 1964. 1964. 10.5 x 8 in.  
P 1.26/2: C 46/964
- 21832 — 5-cent Doctors Mayo commemorative postage stamp, available at your local post office Sept. 12, 1964. 1964. 10.5 x 8 in. P 1.26/2: M 45
- 21833 — 5-cent Verrazano-Narrows Bridge commemorative postage stamp, available at your local post office Nov. 23, 1964. 1964. 10.5 x 8 in.  
P 1.26/2: V 61

NOTE.—Commemorative stamp posters, which will be issued irregularly, are available on a subscription basis from the Superintendent of Documents, \$1.50 a yr.; 50c. additional for foreign mailing.

### Facilities handbook, series S.

- 21834 11. Vehicle maintenance facility [chap. 8]. Sept. 7, 1964. [119] p. il. 4°  
[Includes transmittal letter 7. Issued in loose-leaf form.] † ● Item 843  
P 1.31/3: 11/trans.7
- 21835 [Sokol commemorative stamp, unveiling ceremony and remarks by John A. Gronouski, Washington, D.C., Oct. 27, 1964.] [1964.] [1]+3 leaves  
4° (Information Service; General release 194.) † P 1.27: G 89/40

## PRESIDENT OF UNITED STATES

Washington, D.C. 20501

- 21836 On growing older; [by Leonard A. Stevens]. [1964.] cover title, v+146 p. il. (President's Council on Aging.) \* Paper, 50c. ● Item 851-J  
L.C. card 64-65463 Pr 35.8: Ag 4/01 1/2
- 21837 Report on land and water development in Indus Plain [with bibliography]; by White House-Department of Interior Panel on Waterlogging and Salinity in West Pakistan. Jan. 1964, 2d printing Oct. 1964. [4]+xviii+454 p. il. 5 maps in pocket, 4° \* Paper, \$3.00. ● Item 851-J  
L.C. card 64-65504 Pr 35.8: W 29/L 22

## PUBLIC DOCUMENTS DIVISION, Government Printing Office

Washington, D.C. 20402

Price list PL (series). † ● Item 554

GP 3.9: (nos.)

- 21838 33. Labor; Sept. 1964. 44th edition. [1964.] [2]+26 p. il.  
L.C. card 26-26497
- 21839 36. Government periodicals and subscription services; Nov. 1964. 116th edition. [1964.] [2]+33 p.  
L.C. card 26-26170
- 21840 71. Children's Bureau and other publications relating to children and youth; Sept. 1964. 44th edition. [1964.] [2]+9 p. il.  
L.C. card 26-26175
- 21841 83. Library of Congress; Aug. 1964. 11th edition. [1964.] [2]+9 p. il.  
L.C. card 51-60918
- 21842 86. Consumer information, family finances, appliances, recreation, gardening, health and safety, food, house and home, child care, clothing and fabrics; Nov. 1964. 1st edition. [1964.] [2]+20 p. il.

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PUBLIC HEALTH SERVICE, Health, Education, and Welfare Dept.  
Washington, D.C. 20201

- 21843 Announcement, research and research training grants in environmental health sciences. [Revised Aug. 1964.] [1964.] [6] p. narrow 8° ([Bureau of State Services, Environmental Health.]) † ● Item 485  
FS 2.2: En 8/4/964
- 21844 Dental services for Indians [annual report], fiscal year 1964. [1964.] iv+35 p. il. oblong 8° (Bureau of Medical Services, Division of Indian Health.) † ● Item 486-F  
L.C. card 58-62415 FS 2.86/3: 964
- 21845 Digest of State air pollution laws, 1963 edition, 1964 supplement; [by Samuel M. Rogers and others]. [1964.] [1]+vi+21+[1] p. 4° ([Publication 711, 1964 supplement; Division of Air Pollution.]) [Digest and tabulation of 1964 legislative actions.] †  
L.C. card 60-60121 FS 2.93: 963/supp.964
- 21846 Economic benefits from public health services, objectives, methods, and examples of measurements [articles, with lists of references]. Apr. 1964. vi+31 p. 4° ([Publication 1178; Office of Surgeon General, Division of Public Health Methods.]) \* Paper, 30c. ● Item 485  
L.C. card 64-65491 FS 2.2: Ec 7
- Environmental health series: Radiological health. (Division of Radiological Health.)
- 21847 RH-7. Environmental surveillance laboratory for radionuclide analyses: pt. 1, Establishment for environmental surveillance laboratory, case study [with list of references, by] Edmond J. Baratta, Donald C. Parks, Dade W. Moeller; pt. 2, Analysis of large numbers of milk samples for fission products [with list of references, by] Marvin Rosenstein. [July 1964.] v+38 p. il. ([Publication 999-RH-7.]) [Abstract cards attached to back cover.] † (Limited distribution.) ● Item 483-F  
L.C. card 64-60092 FS 2.300: RH-7
- 21848 Field procedures for bacteriological studies of diarrheal diseases [with bibliography]; by Don C. Mackel. [Aug. 1964.] v+33 p. il. 4° ([Publication 1133; Communicable Disease Center, Technology Branch, Phoenix, Ariz.]) \* Paper, 35c. ● Item 505-A  
L.C. card 64-65430 FS 2.60/7: D 54
- 21849 Fire proof your family; [by Irmagene N. Holloway]. [1964.] [4] p. 4° [For use of Home Economics Committee of National Grange.] †  
● Item 485 FS 2.2: F 51
- Health information series.
- 21850 105. Epilepsia, esperanza en la investigación; [redactado por la Oficina de Información, National Institute of Neurological Diseases and Blindness.] [1964.] 28 p. il. narrow 8° ([Publication 938.]) \* Paper, \$11.25 per 100; single copy 15c. FS 2.50: 105/Spanish
- Health mobilization series. (Division of Health Mobilization.) ● Item 486-E FS 2.302: (letters-nos.)
- 21851 F-4. Laboratory section of civil defense emergency hospital [with list of other publications on civil defense emergency hospital]. 1964. iv+49 p. il. 3 pl. ([Publication 1071 F-4.]) [Text on p. 2 of cover. Two plates are colored.] \* Paper, 40c.
- 21852 I-2. Role of dentist in national disaster [with list of references]; prepared by study committee appointed by Council on Federal Dental Services of American Dental Association, in cooperation with Division of Health Mobilization. 1964. iii+16 p. ([Publication 1071-I-2.]) \* Paper, 15c.
- 21853 Occupational diseases, guide to their recognition [with lists of references]; W. M. Gafafer, editor. [1964.] viii+375 p. ([Publication 1097; Division of Occupational Health.]) [Rewritten and enlarged edition of Occupation hazards and diagnostic signs, published as Labor Standards Bureau bulletin 41.] \* Cloth, \$2.25. ● Item 496-A  
L.C. card 64-65493 FS 2.6/2: Oc 1/2

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## Public health service bibliography series.

- 21854 55. Public Health Service numbered publications, catalog, 1950-62. [June 1964.] viii+190 p. large 8° ([Publication 1112.]) \* Paper, \$1.00.  
● Item 481-A  
L.C. card 64-65495 FS 2.21: 55
- 21855 Radiological survey of lower Columbia River in Oregon, Jan. 1962-July 1963 [with list of references; by] George L. Toombs and John G. Bailey. [1964.] [2]+395-400 p. il. 4° [From Radiological health data, v. 5, no. 8, Aug. 1964.] † FS 2.90/a: C 72
- 21856 Research grants, environmental engineering and food protection, fiscal year 1964. [1964.] [2]+25 p. 4° ([Publication 1240]; Bureau of State Services (EH), Division of Environmental Engineering and Food Protection, Research Grants Branch.) [Title on cover is: Division of Environmental Engineering and Food Protection's research grants, fy 1964.] \* Paper, 25c. ● Item 486-G  
L.C. card 64-65516 FS 2.300/3: 964
- 21857 Schedule A, Schools of nursing and public health offering traineeships for full-time academic study, 1964-65. Revised Sept. 1964. [1964.] [2] p. f° (Division of Nursing.) [Supplement to PHS pub. 520.] † FS 2.2: N 93/38/supp.-2/964
- 21858 Summary of report of Surgeon General's Advisory Committee on Smoking and Health. [Sept. 1964.] [2]+ii+12 p. il. ([Publication 1103-D.]) \* Paper, 10c. ● Item 485 FS 2.2: Sm 7/2/sum.
- Vital and health statistics: Series 10, Data from National Health Survey. (National Center for Health Statistics.) ● Item 500-E
- 21859 13. Current estimates from Health Interview survey, United States, July 1963-June 1964, provisional estimates of incidence of acute conditions, number of persons reporting one or more chronic conditions, number of persons injured, hospital discharges, disability days, number of physician and dental visits, and time intervals since last physician and dental visits, based on data collected in household interviews during period July 1963-June 1964; [by Charles S. Wilder]. Oct. 1964. [6]+48 p. il. 4° ([Publication 1000, series 10, no. 13; Division of Health Interview Statistics.]) \* Paper, 40c. FS 2.85/2: 10/no.13
- 21860 Water pollution control research and training grants, list of 1964 awards, research grants, research fellowships, training grants, demonstration grants. [1964 edition.] [1964.] v+50 p. 4° ([Publication 1100]; Division of Water Supply and Pollution Control.) † ● Item 502-A  
L.C. card 64-60366 FS 2.64/7: 964

## PUBLIC HOUSING ADMINISTRATION, Housing and Home Finance Agency Washington, D.C. 20413

- 21861 Community service programs for public housing, from unsafe, unsanitary living conditions to wholesome environments. [1964.] [12] p. il. †  
● Item 599 HH 3.2: C 73

## RECLAMATION BUREAU, Interior Dept. Washington, D.C. 20240

- 21862 Technical record of design and construction: Bonham and Cottonwood pipelines and Molina powerplants, constructed 1959-63, Collbran project, Colo. [with selected bibliography; prepared by Technical and Foreign Services Branch, Office of Chief Engineer]. Denver, Colo., July 1964. [9]+xiii+277 p.+[4] leaves il. 4° [Errata for p. 142, pasted on p. 2 of cover.] † Paper, \$5.25, Reclamation Bureau, Attn. Code 841, Denver Federal Center, Denver, Colo., 80225.  
L.C. card 64-65502 I 27.2: B 64/2

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RENEGOTIATION BOARD

Washington, D.C. 20446

- 21863 Renegotiation act of 1951 as amended through June 30, 1964; compiled by Renegotiation Board. 1964. ii+30 p. \* Paper, 15c. ● Item 308  
L.C. card 56-62153 RnB 1.5: R 29/964

SCIENCE INFORMATION SERVICE OFFICE, National Science  
Foundation

Washington, D.C. 20550

- 21864 Characteristics of scientific journals, 1949-59 [report of survey conducted by Office of Science Information Service, with list of references; prepared by Ileen E. Stewart]. Aug. 1964. cover title, vii+25 p. il. 4° (NSF 64-20.) [Includes list of participating journals.] \* Paper, 30c.  
● Item 834-U  
L.C. card 64-65458 NS 2.2: J 82/949-59

SMALL BUSINESS ADMINISTRATION

Washington, D.C. 20416

- 21865 Economic injury disaster loans for small firms, natural disasters; [issued by Office of Public Information]. [Nov. 1964.] [2] p. il. 4°, folded into narrow 48° size. ([OPI-1.]) † SBA 1.2: Ec 7  
21866 — product disasters; [issued by Office of Public Information]. [Nov. 1964.] [2] p. il. 4°, folded into narrow 48° size ([OPI-3.]) †  
SBA 1.2: Ec 7/2

Small business bibliography. † ● Item 901-K

- 21867 15. Recordkeeping systems, small store and service trade; revised by J. Wade Rice. Aug. 1964 revision. [1964.] 12 p. 4°  
L.C. card 64-61133 SBA 1.3: 15/4

SMITHSONIAN INSTITUTION

Washington, D.C. 20560

- 21868 Masters of space; by Philip S. Hopkins. [Port City Press, Inc., Oct. 1964.] 30+[2] p. il. oblong 8° [Some illustrations are colored.] ([Publication 4590.]) † Paper, 50c.  
L.C. card 64-65554 SI 1.2: Sp 1

Smithsonian miscellaneous collections.

SI 1.7: (nos.)

- 21869 v. 146, no. 4. Evolutionary trends in avian genus *Clamator* [with bibliography]; by Herbert Friedmann. Oct. 30, 1964 [Port City Press, Inc., Baltimore, Md.]. [3]+127 p. il. (Publication 4532.) † Paper, \$2.00.  
L.C. card 64-65509  
21870 v. 146, no. 5. Some behavior patterns of platyrrhine monkeys: 1, Night monkey (*Aotus trivirgatus*) [with bibliography]; by M. Moynihan. Oct. 23, 1964 [Port City Press, Inc., Baltimore, Md.]. iv+84 p. il. (Publication 4533.) † Paper, \$1.25.  
L.C. card 64-65433  
21871 v. 146, no. 7. New species of marine pennate Diatom from Honolulu Harbor; by Paul S. Conger. Oct. 23, 1964 [Port City Press, Inc., Baltimore, Md.]. [2]+5 p. 1 pl. (Publication 4593; Mary Vaux Walcott Fund for publications in botany.) † Paper, 40c.  
L.C. card 64-65432

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## SOCIAL SECURITY ADMINISTRATION, Health, Education, and Welfare Dept., Washington, D.C. 20201

### OASI (series). • Item 518-A

FS 3.35: (nos.)

- 21872 22. Social security information for self-employed people. Oct. 1964. [10] p. narrow 12° • Paper, 5c.  
L.C. card HEW 59-47
- 21873 29a. What you need to know about social security disability insurance benefits. [Oct. 1964.] 14 + [2] p. ll. • Paper, 15c.  
L.C. card HEW 59-77
- 21874 35. Your social security. [Oct. 1964.] 30 + [2] p. ll. oblong 48° • Paper, \$6.50 per 100; single copy, 10c.  
L.C. card HEW 60-28
- 21875 852. Self-employed farmers, are you getting your social security credit? [Dec. 1964.] [8] p. ll. oblong 24° †  
L.C. card HEW 62-22

### Research and statistics note 1964 (series). (Division of Research and Statistics.) †

- 21876 12. Reduced old-age benefits for retired workers under 65 years of age; prepared by John W. Mitchell. Oct. 13, 1964. 4 p. 4° FS 3.28/2: 964/12

## SOIL CONSERVATION SERVICE, Agriculture Dept. Washington, D.C. 20250

- 21877 1964 fall water supply summary [western United States; prepared by Water Supply Forecasting Branch, Engineering Division, Portland, Oreg.] [1964.] [4] p. ll. 4° † A 57.46/8: 964

### Soil survey series 1957. • Item 102 (Rev. 1957)

- 21878 20. Eastern Stanislaus area, Calif. [with list of literature cited; by Rodney J. Arkley]. Sept. 1964. cover title, 1 + 160 p. ll. 58 p. of pl. and maps, 4° [Prepared in cooperation with California Agricultural Experiment Station. Text on p. 2 of cover. One map is colored.] • Paper, \$3.75.  
L.C. card Agr 64-497 A 57.38: 957/20

### Soil survey series, 1961. • Item 102 (Rev. 1957)

- 21879 10. Spalding County, Ga. [with list of literature cited; by Hugh T. Davis and Jerry A. Pilkinton]. Oct. 1964. cover title, 1 + 65 p. ll. 31 p. of pl. and maps, 1 tab. 4° [Prepared in cooperation with University of Georgia, College of Agriculture, Agricultural Experiment Station. Text on p. 2 of cover. One map is colored.] • Paper, \$2.00.  
L.C. card Agr 64-498 A 57.38: 961/10

## STATE DEPARTMENT Washington, D.C. 20520

### International organization and conference series. • Item 882-B

- 21880 56. 1965, International Cooperation Year. [Apr. 1964, revised Oct. 1964.] [1964.] 8 p. 4° (Foreign affairs outline, [Publication 7763; Office of Media Services]. Bureau of Public Affairs.) [Based on address made by Harlan Cleveland, Assistant Secretary of State for International Organization Affairs, before Conference Group of U.S. National Organizations for United Nations at New York, N.Y., Feb. 27, 1964.] • Paper, 5c.  
L.C. card 64-65577 S 1.70: 56

### Treaties and other international acts series. • Paper, \$10.00 a yr. (approximately 150 issues), \$6.00 additional for foreign mailing; single copies vary in price. • Item 899 S 9.10: (nos.)

- 21881 5638. Columbia River basin, cooperative development of water resources, treaty, with annexes, between United States and Canada, signed Washington Jan. 17, 1961 [proclaimed by President of United States Sept. 16, 1964; entered into force Sept. 16, 1964] with exchange of notes signed Washington Jan. 22, 1964, and Ottawa Sept. 16, 1964. [1964.] [2] + 51 p. 1 tab. • Paper, 30c.  
L.C. card 64-65538

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- 21882 5641. United States defense areas on St. Lucia, agreement, with annex, between United States and United Kingdom of Great Britain and Northern Ireland, replacing annex D of agreement of Feb. 10, 1961, concerning United States defense areas in West Indies, effected by exchange of notes signed London Aug. 20, 1964; [entered into force Aug. 20, 1964.] [1964.] [2]+6 p. 3 pl. \* Paper, 50c.  
L.C. card 64-65464
- 21883 5652. Agricultural commodities, use in Republic of Congo of Congo francs accruing under certain United States-Congo agreements, agreement between United States and United Nations, amending understanding of Feb. 13, 1962, effected by exchange of letters signed New York Aug. 25 and 26, 1964; [entered into force Aug. 26, 1964.] [1964.] [2]+3 p. \* Paper, 5c.  
L.C. card 64-65539
- 21884 5653. Agricultural commodities, agreement between United States and Republic of Congo, amending agreements of Nov. 18, 1961, and Feb. 23, 1963, as amended, effected by exchange of notes, signed Léopoldville Aug. 28 and Sept. 4, 1964; [entered into force Sept. 4, 1964.] [1964.] [2]+4 p. [English and French.] \* Paper, 5c.  
L.C. card 64-65465
- 21885 5654. Agricultural commodities, agreement between United States and Faraguay, signed Asunción Sept. 5, 1964; [entered into force Sept. 5, 1964] with exchange of notes. [1964.] [2]+14 p. [English and Spanish.] \* Paper, 10c.  
L.C. card 64-65466
- 21886 5655. Mutual defense assistance, administrative expenditures, agreement between United States and Norway, amending annex C to agreement of Jan. 27, 1950, effected by exchange of notes dated Oslo Aug. 25 and Sept. 2, 1964; [entered into force Sept. 2, 1964]. [1964.] [2]+3 p. \* Paper, 5c.  
L.C. card 64-65467
- 21887 5656. Double taxation, taxes on income, supplementary convention between United States and Sweden, modifying and supplementing convention and protocol of Mar. 23, 1939, signed Stockholm Oct. 22, 1963; [entered into force Sept. 11, 1964.] [1964.] [2]+11 p. [English and Swedish.] \* Paper, 10c.  
L.C. card 64-65468
- 21888 5657. Establishment of long range aid to navigation (Loran-C) station in Newfoundland, agreement between United States and Canada, effected by exchange of notes signed Ottawa Sept. 16, 1964; [entered into force Sept. 16, 1964.] [1964.] [2]+6 p. \* Paper, 5c.  
L.C. card 64-65469
- 21889 5658. Parcel post, agreement and detailed regulations between United States and Kuwait, signed Kuwait Oct. 9, 1963, and Washington, Oct. 21, 1963; entered into force Sept. 16, 1964.] [1964] [2]+23 p. \* Paper, 15c.  
L.C. card 64-65470
- 21890 5660. Atomic energy, cooperation for civil uses, agreement between United States and Argentina, amending agreement of June 22, 1962, signed Washington June 8, 1964; [entered into force Sept. 29, 1964.] [1964.] [2]+4 p. [English and Spanish.] \* Paper, 5c.  
L.C. card 64-65471
- 21891 5661. Tracking stations, agreement between United States and Nigeria, amending and extending agreement of Oct. 19, 1960, effected by exchange of notes signed Lagos, Apr. 28 and May 21, 1964; [entered into force May 21, 1964, operative July 1, 1963]. [1964.] [2]+4 p. \* Paper, 5c.  
L.C. card 64-65540
- 21892 5662. Agricultural commodities, agreement between United States and Republic of Congo, amending agreement of Apr. 28, 1964, effected by exchange of notes signed Léopoldville Aug. 25, 1964; [entered into force Aug. 25, 1964.] [1964.] [2]+3 p. [English and French.] \* Paper, 5c.  
L.C. card 64-65472
- 21893 5663. Mapping, cooperative program, agreement between United States and Dominican Republic, signed Santo Domingo, Aug. 28, 1964; [entered into force Aug. 28, 1964.] [1964.] [2]+8 p. [English and Spanish.] \* Paper, 10c.  
L.C. card 64-65473

## STATISTICAL REPORTING SERVICE, Agriculture Dept. Washington, D.C. 20250

- 21894 Peanut stocks and processing, seasonal report, Aug. 1963-July 1964, revised. Oct. 1964. 6 p. 4° (GrLg 11-2-1 (64); Crop Reporting Board.) † A 92.14/2: 963-64
- 21895 Stocks of hops, Sept. 1, 1964. Sept. 21, 1964. 1 p. 4° (SpCr2(9-64); Crop Reporting Board.) † A 92.30: 964-2

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## TARIFF COMMISSION

Washington, D.C. 20436

- 21896 Watches, watch movements, and parts of watch movements, report to the President on investigation no. TEA-1-7 under sec. 301(b) of Trade expansion act of 1962. Oct. 1964. cover title, 13 leaves, 4° (TC publication 142.) †  
L.C. card 57-60818 TC 1.2: W 29/5

## TAX COURT

Washington, D.C. 20224

- 21897 Reports of Tax Court, Oct. 1, 1963-Mar. 31, 1964, v. 41, Ella C. Thomas, reporter. 1964. vii+950 p. \*Cloth, \$3.50. ● Item 742  
L.C. card 45-31105 Ju 11.7: 41

## TENNESSEE VALLEY AUTHORITY

Washington, D.C. 20444

- 21898 Facts about TVA operations, 1964 [with list of selected references for further reading]. [1964.] [4]+27 p. il. †  
L.C. card 56-63741 Y 3.T 25: 2 Op 2/964
- 21899 Fertilizer science and American farmer, research and education programs of Tennessee Valley Authority [with list of selected references for further reading]. [1964.] 32 p. il. †  
L.C. card 64-65552 Y 3.T 25: 2 F 41/4/964
- 21900 Tributary area development in Tennessee Valley. [1964.] [16] p. il. oblong 24° †  
Y 3.T 25: 2 Ar 3
- 21901 TVA, national asset. [June 1963.] 8 p. il. † Y 3.T 25: 2 T 25/15/963
- 21902 TVA power, 1963-64. [1964.] [2]+28+[1] p. il. †  
L.C. card 54-60353 Y 3.T 25: 30 P 87/963-64
- 21903 TVA, river traffic and industrial growth [with list of selected references for further reading]. [Revised Aug. 1964.] [1964.] [2]+22 p. il. †  
L.C. card 64-65575 Y 3.T 25: 2 R 52/964
- 21904 TVA, valley of light, 1933-1963. 1964. vi+81 p. il. [Contains principal text of Tennessee Valley Authority's annual report to the President and Congress for fiscal year 1963.] †  
L.C. card 40-26355 Y 3.T 25: 1a T 256/2/963

## TRANSPORTATION CORPS (Army), Defense Dept.

Washington, D.C. 20310

TRECOM technical reports. (Army Transportation Research Command, Fort Eustis, Va.) D 117.8/2: (nos.)

- 21905 64-4. Personnel restraint systems study, CH-47 Vertol Chinook, crash injury evaluation AvCIR 62-26 [with list of references]: prepared by [Joseph L. Haley, Jr., and James P. Avery], Aviation Safety Engineering and Research, 2871 Sky Harbor Blvd., Phoenix, Ariz., division of Flight Safety Foundation, Inc. Apr. 1964. [1]+iv+64+[4] p. il. 4° (Task 1A024701A12101, contract DA 44-177-AMC-888(T).) Φ (Price upon application).
- 21906 Supplement to Personnel restraint systems study, CH-47 Vertol Chinook, crash injury evaluation AvCIR 62-26: prepared by Aviation Safety Engineering and Research, 2871 Sky Harbor Blvd., Phoenix, Ariz., division of Flight Safety Foundation, Inc. Apr. 1964. iv p.+32 leaves, il. 4° (Task 1A024701A12101, contract DA 44-177-AMC-888(T).) Φ (Price upon application).

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## DECEMBER 1964

- 21907 64-15. Parametric investigation of aerodynamic and aeroelastic characteristics of articulated and rigid (hingeless) helicopter rotor systems [with list of references]; prepared by [E. R. Wood and A. C. Buffalano], Sikorsky Aircraft Division, United Aircraft Corporation, Stratford, Conn. Apr. 1964. [1]+xxv+264 p.+ [2] leaves, il. 4° (Task 1D121401A14211 (formerly task 9R38-11-009-11), contract DA 44-177-TC-831; SER-50359.) Φ (Price upon application).
- 21908 64-34. Gemini 1-ton, amphibious, off-highway, air-transportable vehicle-concept evaluation program-final report; prepared for Canadian Commercial Corporation by Hawker Siddeley Canada Ltd., Engineering Division, Toronto, Ontario. July 1964. [1]+vii+118+[4] p. il. 4° (U.S. contract DA 44-177-AMC-21(T), Canadian contract DDF file 91-338 S.N.4MX3-2, task 1D021701A04813.) Φ (Price upon application.)
- 21909 64-43. Effects of transpiration through angled slots on development of turbulent boundary layer [with list of references]; prepared by [Gordon L. Harris], Aerophysics Department, Mississippi State University, State College, Miss. Sept. 1964. [1]+viii+44+[4] p. il. 4° (Task 1D121401A14203, contract DA 44-177-AMC-892(T); Aerophysics research report 43.) Φ (Price upon application.)
- 21910 64-44. Method for calculation of laminar and turbulent boundary layer around 2-dimensional and axisymmetric bodies with suction or blowing [with list of references]; prepared by [Hideki Yamaoka], Aerophysics Department, Mississippi State University, State College, Miss. Sept. 1964. [1]+viii+37+[4] p. il. 4° (Task 1D121401A14203, contract DA 44-177-AMC-892(T); Aerophysics research report 50.) Φ (Price upon application.)
- 21911 64-47. Effects of propeller slipstream on V/STOL aircraft performance and stability [with bibliography]; prepared by Dynasciences Corporation, Fort Washington, Pa. Aug. 1964. [1]+xv+107+[4] p. il. 4° (Task 1D121401A14203, contract DA 44-177-AMC-48(T).) Φ (Price upon application.)

### TREASURY DEPARTMENT

Washington, D.C. 20220

#### Department circular. †

- 21912 918. Regulations governing withholding for State and territorial income tax purposes on compensation of Federal employees under act of July 17, 1952, as amended, supp. 28, payment of withheld State tax. Oct. 9, 1964. 1 p. 4° (Fiscal Service, Bureau of Accounts.) T 1.4/2: 918/supp.28
- 21913 Remarks by Douglas Dillon, Secretary of Treasury, at Limit Buyer Dinner, New Orleans, La., Oct. 22, 1964. [1964.] 7 p. 4° (D-1384.) †  
T 1.31: D 58/67
- 21914 Remarks of Douglas Dillon, Secretary of Treasury, before American Bankers Association, 90th annual convention, Miami Beach, Fla., Oct. 27, 1964. [1964.] 9 p. 4° (D-1385.) †  
T 1.31: D 58/68

### VETERANS ADMINISTRATION

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- 21915 Pulmonary disease research in Veterans Administration. [1964.] cover title, ii+14 p. il. (Department of Medicine and Surgery.) † ● Item 985  
VA 1.2: P 96
- VA pamphlets. ● Item 988  
VA 1.19: (nos.)
- 21916 5-27. These are yours! salary, life insurance, opportunity for promotion, cash for ideas, retirement benefits, financial protection against sickness, accident, unemployment, vacations and holidays with pay. Revised Nov. 1964. [1964.] 22 p. il. (Office of Assistant, Administrator for Personnel.) \* Paper, 15c.
- 21917 29-14A. National service life insurance: Important notice, Congress has passed and the President has signed 2 laws liberalizing National service life insurance, effective Jan. 1, 1965. Oct. 1964. 8 p. narrow 16° †

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# GOVERNMENT PUBLICATIONS

## WAGE AND HOUR AND PUBLIC CONTRACTS DIVISIONS,

Labor Dept.

Washington, D.C. 20210

Child labor regulations, title 29 of Code of Federal regulations, pt. 1500, subpt. C. †

- 21918 3. Employment of minors between 14 and 16 years of age. [May 1962 issue.] [1964.] 5 p. 4° (WH64-60.) [Text of Code revised as of Jan. 1, 1963, and any Federal register amendments issued up to and including June 30, 1963.] L 22.6/3 : 3/2

## WEATHER BUREAU, Commerce Dept.

Washington, D.C. 20235

Decennial census of United States climate: Climatic summary of United States, supplement for 1951-1960, Climatology of United States no. 86-(series). • Item 273-B C 30.71/8: (nos.)

- 21919 16. Michigan. 1964. 74 p. il. oblong 8° • Paper, 40c.  
21920 23. New England, Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont. 1964. 142 p. il. oblong 8° • Paper, 65c.  
21921 Sheet of national atlas of United States: Mean daily solar radiation, monthly and annual; prepared by Office of Meteorological Research and Office of Climatology. Scale 1: 30,000,000; scale 3 in. = 1500 m. Edition of 1964. 1964. 16 x 22 in. [Albers equal-area projection, standard parallels 29½° and 45½°. Based on data published in Monthly weather review and Climatological data national summary through 1962. Continued on verso.] • Paper, 25c. C 30.22/4: So 4

Technical paper.

- 21922 50. Frequency of maximum water equivalent of March snow cover in North Central United States [with list of references]; prepared by Cooperative Studies Section, Office of Hydrology, for Engineering Division, Soil Conservation Service, Department of Agriculture. 1964. III+24 p. il. 4° • Paper, 25c. • Item 281 C 30.28: 50

## WELFARE ADMINISTRATION, Health, Education, and Welfare Dept.

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- 21923 Creating opportunities for older persons, selected papers from 4th annual Conference of State Executives on Aging, Apr. 27-29, 1964, Washington, D.C. [with list of references]. [Oct. 1964.] iv+44 p. 4° (Office of Aging; [OA no. 122].) • Paper, 30c. • Item 532-A-1 FS 14.2: O1 1/3 L.C. card HEW 64-55  
21924 Grants for research and demonstrations in social welfare, guide to sources of support. [1964.] [2]+10 p. ([Publication 7]; Division of Research.) [Text on p. 3 of cover.] • Paper, 15c. • Item 532-A-4 FS 14.8: G 76  
21925 Welfare in review, statistical supplement. 1964 edition. [1964.] cover title, [1]+38 p. il. 4° • Paper, 35c. • Item 532-A-2 FS 14.10/2: 964  
Welfare research report. (Division of Research.) • Item 532-A-5  
21926 1. Family income and related characteristics among low-income counties and States; by Alexander L. Radomski and Anita U. Mills. Sept. 1964. x+85 p. il. 4° [Includes sources of statistical data.] • Paper, 55c. FS 14.14: 1 L.C. card HEW 64-138

## WOMEN'S BUREAU, Labor Dept.

Washington, D.C. 20210

- 21927 Needs and opportunities in our society for educated women, [by] Esther Peterson, Itasca State Park, Minnesota, Sept. 7, 1962. [1964.] 12 leaves, 4° † L 13.2: W 84/41

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- 21928 State laws governing right of minor, 14 years of age or over, to nominate  
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† L 13.2: M 666/3
- 21929 Women in poverty [with list of sources of information]. July 1964. [1]  
+7 leaves, 4° ([WB 65-36.]) [Prepared at request of Women's  
Section, President's Task Force on War against Poverty.] †  
L.C. card L 64-103 L 13.2: P 86

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